

CITY OF NEWBURYPORT.

THE

MAYOR'S ADDRESS

AT THE

Organization of the City Government,

JANUARY 3, 1881.

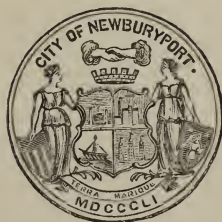
AND THE

ANNUAL REPORTS

TO THE CITY COUNCIL

FOR THE

FINANCIAL YEAR ENDING DECEMBER 18, 1880.



NEWBURYPORT :

WILLIAM H. HUSE & CO., PRINTERS, 42 STATE STREET.
1881.

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ALDERMEN.

Clerk of the Board of Aldermen—GEORGE H. STEVENS.

COMMON COUNCIL.

Ward 1—WILLIAM STANWOOD, RUFUS ADAMS, HIRAM H. LANDFORD,	Ward 4—THOMAS H. DAVIS, CHARLES H. SARGENT, BERKELEY JOHNSON,
Ward 2—WILLIAM HOLKER, HIRAM P. MACINTOSH, JOHN L. DODGE.	Ward 5—H. G. JOHNSON, JR., HARRIS C. PEARSON, FRANK N. EVANS,
Ward 3—WILLARD J. HALE, PHILIP H. BLUMPEY, JR., JOHN W. RICKER,	Ward 6—JOSEPH C. ADAMS, FRANK E. CUTTER, SAMUEL E. EMERY.

SCHOOL COMMITTEE

HON. ROBERT COUCH, Chairman, ex-officio. DR. J. F. YOUNG, Sec'y.
DR. JAMES A. MERRILL, Vice-chairman. DR. A. B. DEARBORN, Agt.

Ward 1—FRANK A. HALE, JOHN W. WINDER,	Ward 4—HARRISON G. JOHNSON, CHARLES L. DAVIS,
Ward 2—STEPHEN COLLINS, GEORGE E. POOR,	Ward 5—ALVAH B. DEARBORN, FRANCIS A. HOWE,
Ward 3—DAVID T. WOODWELL JOHN F. YOUNG,	Ward 6—JAMES A. MERRILL, CHARLES A. CURRIER.

OVERSEERS OF THE POOR.

FRANCIS W. PUTNAM, CHARLES NOYES, JOHN P. EVANS.
Clerk of Overseers of the Poor—WILLIAM H. BAYLEY,

ASSESSORS.

CHAS. J. BROCKWAY, G. W. JACKMAN, JR., NATH'L GREELEY.

BOARD OF HEALTH.

DR GEO. W. SNOW, ELISHA P. DODGE, WILLIAM H. MUNROE.
Clerk of the Board of Health—GEORGE H. STEVENS.

City Clerk—GEORGE H. STEVENS.

Treasurer and Collector—GEORGE W. PIPER.

City Solicitor—AMOS NOYES.

City Auditor—EDWARD BURRILL.

City Physician—GEORGE W. SNOW.

City Messenger—JOSEPH M. TAPPAN.

Superintendent of Streets—DANIEL C. BATCHELDER.

Librarian of Public Library—HIRAM A. TENNEY.

Superintendent of Reading Room—MARTHA P. LUNT,

Sealer of Weights and Measures—CHARLES R. SARGENT.

Inspector of Milk and Vinegar—CHARLES R. SARGENT.

Chief Engineer of the Fire Department—JOHN S. FROST.

City Marshal—EDWARD E. TAYLOR.

Assistant Marshal,	Day Officer,	Captain of Watch,
GEORGE B. HICKEN.	HIRAM JANVRIN.	JAMES STANTON.

NIGHT WATCHMEN.

DANIEL RYAN,	ALBERT D. HALE,	JACOB P. TORREY,
CHAS. W. PAGE,	ROBERT BRAGG,	ALLEN McLEAN

SPECIAL NIGHT PATROL.

IRA F. H. BLAKE, JOHN H. DANIELS.

SINKING FUND COMMISSIONERS.

HIS HONOR, THE MAYOR, ex-officio,
PRESIDENT OF THE COMMON COUNCIL, ex-officio.

CITY AUDITOR, ex-officio.

EBEN SUMNER, EDWARD A. MOSELEY,

COMMITTEES.

STANDING COMMITTEES OF BOARD OF ALDERMEN.

On Police,
MAYOR, ex-officio; Aldermen HALL and GERRISH.

On Elections,
Aldermen CROSS and RICHARDSON.

On Putnam and Atkinson Funds.
Aldermen KENISTON, RICHARDSON, and GERRISH.

On Licenses,
Aldermen CROSS, SARGENT, and KENISTON.

On Enrolled Bills,
Aldermen CROSS, SARGENT and RICHARDSON.

On Follansbee Fund,
The MAYOR and BOARD OF ALDERMEN.

On Bromfield Fund,
Aldermen KENISTON, SARGENT and CROSS.

On Frothingham Fund,
Aldermen CROSS, HALL and GERRISH.

STANDING COMMITTEES OF COMMON COUNCIL.

On Elections and Returns,
Councilmen LANDFORD, EVANS and CUTTER.

On Bills of Second Reading.
Councilmen STANWOOD, EMERY and PEARSON.

On Enrolled Bills,
Councilmen JOSEPH C. ADAMS, DODGE, and H. G. JOHNSON, JR

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

On Finance,

The MAYOR, ex-officio; Alderman CROSS; Councilmen STANWOOD, EVANS, BLUMPEY, SARGENT and EMERY.

On Accounts,

Aldermen CROSS and RICHARDSON; Councilman SARGENT, RICKER and CUTTER.

On Public Property,

Aldermen KENISTON and CROSS; Councilmen DAVIS, RUFUS ADAMS, and HIRAM P. MACINTOSH.

On Highways,

The MAYOR, ex-officio; BOARD OF ALDERMEN; Councilmen CUTTER, PEARSON, DAVIS, BLUMPEY, HOLKER, and LANDFORD.

On Fire Department,

Aldermen GERRISH, HALL and RICHARDSON; Councilmen HOLKER SARGENT, MACINTOSH and LANDFORD.

On Bridges and Culverts,

Aldermen CROSS and SARGENT; Councilmen EVANS, J. C. ADAMS, and RICKER.

On Lighting Streets,

Aldermen HALL and CROSS; Councilmen RUFUS ADAMS, EVANS, and EMERY.

On Claims,

Aldermen CROSS and SARGENT; Councilmen DODGE, SARGENT and HOLKER.

On Fuel,

Aldermen KENISTON and GERRISH; Councilmen EMERY, H. G. JOHNSON, JR., and RUFUS ADAMS.

On Ordinances,

The MAYOR, ex-officio; Councilmen DODGE and B. JOHNSON.

On Alms House and Poor,

Aldermen KENISTON and GERRISH; Councilman DAVIS, HOLKER EVANS, STANWOOD and RICKER.

On Public Instruction,

The MAYOR, ex-officio; Aldermen GERRISH and CROSS; President HALE, ex-officio; Councilmen BLUMPEY, B. JOHNSON, DODGE and J. C. ADAMS.

On Printing,

Aldermen HALL; Councilmen MACINTOSH and DAVIS.

On Sawyer Fund,
Aldermen KENISTON; Councilmen H. G. JOHNSON, JR., and EMERY.

On Brown Fund,
Aldermen CROSS; Councilmen PEARSON and B. JOHNSON.

On Atwood Fund,
The MAYOR, ex-officio; President of the Common Council, ex-officio; City
City Treasurer, ex-officio.

Clerk of Standing committees of City Council,
GEORGE H. STEVENS.

SUBORDINATE OFFICERS—1881

SURVEYORS OF LUMBER.

John T. Fillmore.	Joseph L. Johnson,	William Thurston, jr.,
George W. Marston,	Edward Perkins,	Geo. W. Jackman, jr.,
William E. McQuillen,	Amos Pettingell,	Charles S. Lovejoy,
Hervey Kimball,	W. B. Coffin,	John W. S. Colby,
Frank W. Evans,	Walter S. Morse,	Sewell W. Morse,
John P. Evans,		Robert C. Atkinson.

MEASURERS OF WOOD AND BARK.

William S. Coffin,	Hervey Kimball,	George W. Varina,
Philip H. Creasey,	James V. Felker,	William Noyes,
Nicholas Varina,		Amos Coffin.

MEASURERS OF CHARCOAL.

Hervey Kimball.	Charles R. Sargent,	George J. George.
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WEIGHERS AND MEASURERS OF CITY FUEL.

Hervey Kimball,	George J. George,	Stephen Coker,
	Leonard W. Coker.	

MEASURERS OF GRAIN.

Paul Titcomb,	Hale Knight,	Joseph Knight,
Cornelius Shea,	Moses Bartlett,	Moses C. Rolfe,
	Charles B. Knight.	

INSPECTOR OF MILK AND VINEGAR,

Charles R. Sargent.

GAUGERS.

Charles W. Hale,

Philip C. Mason.

SEALER OF WEIGHTS AND MEASURES.

Charles R. Sargent.

WEIGHERS OF COAL, HAY, AND OTHER MERCHANDISE,

Stephen Coker,	George J. George,	Edward H. George,
Amos Coffin,	Henry M. Cross.	George W. Varina,
Charles C. Stockman,	William S. Coffin,	Nicholas Varina,
Samuel Sonnerby,	James V. Felker,	George M. Warner,
William Noyes,	Philip H. Creasey.	John J. Foley,
Oliver T. Littlefield.	Leonard W. Coker,	Hiram Watts,
	John C. Stanley.	

INSPECTOR OF CHARCOAL BASKETS.

Charles R. Sargent.

FENCE VIEWERS.

Hervey Kimball,	Charles H. Goodwin,	John A. Cooper.
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FIELD DRIVERS.

Murk W. Foye,	James W. Welch,	Thomas G. Dodge,
Thomas Coffey,	William Stickney,	Augustus Safford,
Charles W. Merrill,	Nicholas W. Bartlett,	Luther Ordway.

POUND KEEPERS.

James Atwood, Pound No. 1, Auburn st. Luther Ordway, Pound No. 2 Wesley st.

COMMON CRIER.

Enoch C. Flanders.

FISH WARDEN.

John F. Lee.

INSPECTOR OF COAL OIL.

John Huse.

WARD OFFICERS.

WARD ONE.—Warden, Moses E. Cook ; Clerk, John C. Lang ; Inspectors, Alph-
eus G. Knight, Thomas B. Robbins, Daniel P. Noyes.

WARD TWO.—Warden, Samuel K. Gilman ; Clerk, John Burke ; Inspectors,
Isaac Poore, jr., Daniel A. Pingry, Joseph Barlow.

WARD THREE.—Warden, Cyrus T. Goodwin ; Clerk, George E. Donnels ; In-
spectors, Fred W. Young, Benjamin G. Davis, Alonzo R. Nutter.

WARD FOUR.—Warden, William J. Creasey ; Clerk, William S. Goodwin ; In-
spectors, William H. Welch, Sam. E. Sargent, William H. T. Dodge.

WARD FIVE.—Warden, Charles J. Cutter ; Clerk, Wm. H. P. Howard ; Inspec-
tors, George H. Smart, George A. Pearson, Roland H. Hooper.

WARD SIX.—Warden, James Anderson ; Clerk, Eugene F. Lee ; Inspectors,
Charles H. Lunt, William Ives, Benjamin F. Stanley.

INAUGURAL ADDRESS
OF
HON. ROBERT COUCH,
MAYOR.



ADDRESS
OF
HON. ROBERT COUCH,
MAYOR.

Gentlemen of the City Council:—

Our fellow citizens in the exercise of their rights, and looking to the best interests of the community, have selected us to represent them in the municipal government for the year 1881. Having taken the oath of office, we now meet to perfect our organization by selecting the different committees and choosing the different officers that are necessary to care for the interests of the city. Much depends upon our success in this matter. Let no personal prejudice enter into what we do.

It depends upon us to see that the people who elected us receive full value for all the money they pay in taxes, and that no one shall be allowed pay for unnecessary services, while every one shall receive a

fair compensation for work done. Let no one fatten at the public expense! Let no claims based on excessive and exorbitant charges be allowed. It becomes also the duty of the different committees to see that there is no waste of public property of any kind, and that present leakages, if there be any, at once be stopped.

THE INTRODUCTION OF WATER.

These suggestions appear proper at the present time, from the fact that we are about to increase our responsibilities by the introduction of water for mechanical and fire purposes. For drinking and all household purposes, no better water can be found than that which comes up from our wells; and under no circumstances should they be discontinued or used for sewerage, as has been recommended by some of the earnest advocates of the introduction of a larger supply of water.

It is apparent to every one that the days of our prosperity as shipbuilders and owners are passing away. Our ship-yards are now idle. They will soon be falling into decay unless some new business comes to aid them. The signs of the times clearly indicate that we must turn our attention to manufacturing, so falling into line with our sister cities along the river that drive more spindles than any other in the world; and, if we put into this industry the same energy our fathers put into commerce, Newburyport will soon be prepared to take its place once more as a thriving and

growing community. Our location has a good and easy access from the ocean, as well as immediate connection by rail with Boston and New York. When the improvements now contemplated by the government, the deepening of the entrance to our beautiful river by forming jetties at its mouth, thus increasing the depth of water over the bar to twenty feet at low water, are completed, as no doubt they will be in a short time, we shall have one of the finest harbors of refuge on the New England coast. Once again vessels will appear at our wharves with coal and other merchandise for Haverhill, Lawrence, and other places in the Merrimac valley, and also to supply our own factories and people at a reduced cost.

If we become a manufacturing city we must have an abundance of pure rain water; and I am informed that one of Boston's best engineers has reported that we have facilities which only need improving at small expense to give us all we require for a city of 50,000 inhabitants. We have a future, opening to us large possibilities of material prosperity. Shall we be worthy of it, and go forward—thus keeping our sons at home as mechanics and men of business, or shall we, in this transition time, remain inert and ease our minds by saying, "It is of no use; nothing succeeds here?" If we are disposed to take this position, we have already decided the case against ourselves. The far-seeing and practical business men who lately bought the Ocean mill have already nearly doubled

its capacity, and think our city a better place for the business than some others in which they are large mill owners. We also have a large shoe manufactory on Pleasant street, a very beehive of industry, while new business enterprises are starting in different parts of the city.

But, aside from manufacturing purposes, we are sadly in need of water for the extinguishment of fires. We need only look about us to see how many evidences of danger there are from this source. If the large manufacturing block near the centre of the city should take fire in a time of drought, and with a fresh breeze blowing, the disaster might be terrible.

We need water, and water in abundance. The people's money, however, should not be paid to any one unless it is demonstrated that we are to have it. It would be better to remain as we are rather than to undertake its introduction unless it can come in properly and from a never-failing source. Underground springs, for manufacturing purposes, in my opinion, are too uncertain to warrant the expenditure of the people's money. Such a scheme would result in increasing the taxes without securing to the city an adequate benefit.

POLICE DEPARTMENT.

Another subject of great importance is the police department. All good and well-behaved citizens ask and have a right to expect an efficient police force.

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And yet, all people acquainted with the difficulties in the selection of men suitable for the place will sympathize with you if they are satisfied that you have done your best under the circumstances. Should an unsuitable person secure an appointment, let it be understood that he will be discharged at once for any neglect of duty. None but men of well-known temperate habits should be appointed. It is my desire that this force should be efficient, and certainly it can not be efficient without an efficient chief. The large increase of travel on our river during the summer months, particularly on Sunday, besides the bringing to our city by rail of a large number of excursionists, calls for increased care, that our well-disposed and church-going population may not be disturbed by that class of people who rush to the seashore for a whiff of the sea breezes during the hot months. While perhaps we may not have the right, if we have the power, to deny a sail on the river to people who have been confined in the workshops during the week, and find that Sunday is the only day on which they can enjoy such a pleasure, it certainly is our duty to see that they keep good order on the streets.

FIRE DEPARTMENT.

This department for the present is in good condition and well organized, requiring no special mention except to say that the services of our fireman are appreciated by the public. Such changes, of course, as the times demand should be made when rendered nec-

essary. If the introduction of water for the extinguishment of fires should prove successful during the coming summer, and any important change be made necessary in consequence thereof, your attention will be called to it at the proper time, and a reorganization of the department effected to suit the new order of things.

People are apt to complain of the expense of the fire department when the men have nothing to do, but let the fire fiend break loose, and immediately goes up the cry: "Where are the firemen?" And the proud boast that such a company was earliest in position, and began pouring the first stream, is noised abroad to its credit, as it should be. A good and experienced chief is always needed here, and none other should be chosen for political or any other reasons. The people want all the protection from this department that is possible. While we are not rich enough to be extravagant, whatever is necessary should be furnished, to render it thoroughly efficient.

HIGHWAYS.

The highways and streets generally appear to be in a fair condition. Some progress has been made in paving Merrimac street from the Market to the foot of Green street with granite cubes. This was greatly needed, and the improvement in travel is marked. Pleasant street is also in bad condition, and as it is one of our busiest thoroughfares, perhaps it might be well to pave it next, and continue from year to year

with other streets as circumstances may direct. If the introduction of water increases our business, as it appears to me it will, there will be also a substantial increase of taxable property; and while for some time to come the taxes may not be lower, yet the earnings of our wage-laborers will be so much improved that it will be much easier for people to pay them.

POOR DEPARTMENT.

The worthy poor that are citizens of our good old city never should be allowed to suffer. Whosoever cares for them will surely receive his reward. The overseers who are to look after this interest during the year are men not only of prudence but of kindly dispositions. The clerk of the board is competent and worthy. We are indebted here to Dr. Wheelwright, who has acquired large experience by many years of active service as a member of the Board of State Charities, and who has, since his return to the home of his fathers, taken a deep interest in this department.

I feel assured that everything that is needed will be done to improve this very important board. Newburyport has always been noted for her thoughtful care of the poor. She is ready and willing still to assist her own; but it is certain that her people should not be taxed, without their consent, to care for the idle vagrants who wander from place to place seeking some favored spot which shall prove an exception to

the universal law of work. Let us prove that Newburyport is a very good place to live in if people are disposed to work, and a very poor place for the idle vagrant.

SCHOOLS.

During the past year the largest religious society in our city began the work of founding parochial schools. A building that will seat five or six hundred children is nearing completion. Here they propose, through experienced and well-educated teachers, to give their children not only the usual elements of an education, but also to train them in the religion of their fathers and mothers.

However we may differ as to the wisdom of the parochial school system, surely none would deny the right, especially as they will have to pay for their own school, and will be taxed also for the maintenance of the common school system. This issue has been settled by the state, which has decided wisely, in my opinion, that the people are not to be taxed to support sectarian schools, and while all citizens alike can enjoy the benefit of the present school system as established by law, no one sect shall have special schools for its exclusive benefit at the public cost. When the time comes for the withdrawal of this large number of children from the public schools, some change will doubtless be recommended by the school committee for your consideration. While I have very decided opinions on some changes that might be useful in

reference to our High and Putnam schools I think the time has not yet come to express them. Whatever is decided as best, however, will receive no factious opposition from me. My only desire is that our schools may be as efficient as possible, that the sons of Newburyport, in all the future as in the past, may find themselves thoroughly equipped and may continue to fill, as they are filling to-day in all parts of the land, posts of responsibility in the commercial and professional world, with credit to themselves and with honor to their native city.

PUBLIC LIBRARY.

This institution being in part under your charge merits the attention of your fostering care. We hope the time is not far distant when some public-spirited citizens of wealth will feel it a privilege to aid in increasing its usefulness by giving it a liberal endowment. One gentleman, now, from year to year, provides a public reading room largely at his own expense. To be recognized thus as a public benefactor in the founding and strengthening of such institutions is erecting the best monument to one's memory.

TREASURER'S REPORT.

His Honor, Mayor Currier, in his valedictory address delivered this week before the city council, gave a full report of the business for the year 1880. In that report he shows the income of the treasury, the manner in which the money has been expended, and

also the fact that the appropriations made by the city council early in the year have been sufficient to meet the public expenditures. The balance shows the sum of \$6309.09 carried to sinking fund. The city debt has been reduced \$8122.23; the gross debt as appears by the books of the treasurer is now \$381,953.11,—from which deduct stock in our city railroad \$74,200, leaving the net debt about \$307,753.11—a sum that with prudent management can be paid in a few years, leaving the city as all municipalities ought to be, free from debt. This debt was incurred during the late war, and now in prosperous times of peace it is being paid off. While I disapprove of debt, yet no great enterprise can be undertaken by a city without it.

IN CONCLUSION.

And now gentlemen, thanking you for your kind attention, I have only to say, let us do what we can to improve the business of this, our beautiful city, that men of character and moral worth may select good old Newburyport as a home for themselves and their children, and that the prosperity that once made busy our streets and our wharves, and made renowned the name of our city, may return to us again.

REPORT

OF THE

OVERSEERS OF THE POOR

OF THE

CITY OF NEWBURYPORT,

FOR THE YEAR 1880.

REPORT.

To the City Council of the City of Newburyport:

GENTLEMEN—The Overseers of the Poor, to whom is committed a general oversight of the management of the poor of the city, in all its departments, would respectfully submit their second annual report.

GENERAL STATEMENT.

The total cost of the poor department for the year ending November 30, 1880, has been \$16,319.89, and the amount re-imbursed by the state and other cities and towns, and recovered from those who were found able to pay for their support, was \$3272.41, thus showing the net expenditures of this department to be \$13,047.48, which is \$1846.01 less than last year. There has been expended:

For support of the poor in the almshouse.....	\$4,825.20
Salaries	1,909.20
Insane	2,280.65
Criminals	134.42
Poor in other cities and towns	985.66
Out-door relief	6,184.76

\$16,319.89

ALMSHOUSE.

The almshouse has been under the supervision of Mr. and Mrs. Edward J. Lunt, and they have endeavored to make the inmates as comfortable as their circumstances would permit. Quite a number have been received during the past year, much broken down in health, far gone in consumption, cancer, and other diseases; eleven

of the number have died, and two births have occurred, during the year.

The overseers of the poor, in consideration of the fact that the bequest of the late William Horton, D. D., had been paid into the city treasury, looked forward hopefully to the erection of a new almshouse during the year 1880, whereby increased facilities might be provided tending to a greater degree of comfort for the inmates, and suitable apartments be provided for the mild and chronic cases of insanity: thus, in time, saving a large amount of expense to the city. It is a source of regret, on their part, that your honorable body should have otherwise decided.

During the summer an official visit to the almshouse was made by the state authorities, a report of which will be published in due time. An average number of fifty-five persons have been supported there during the year, at a weekly cost of \$1.65 each; an increase per capita of twenty-five cents over last year, which is due in part to the increase in the price of provisions and the large amount of clothing which it has been found necessary to purchase for those who have come to the house entirely destitute.

Twenty-five children have been provided with good warm clothing, five of whom have been placed in comfortable homes on farms outside the city, where it is hoped they will grow up and become useful citizens. There are now in the house eleven children, varying in age from the youngest infant to the child of eight years, all having their mothers with them to assist the matron in her care of them. Five of the older children attend school every day. It is a source of great anxiety on the part of the board to know how best to comply with the law of this commonwealth in relation to children in almshouses and at the same time serve the interest of the city.

[Chapter 103 of the Acts of 1879.]

AN ACT FORBIDDING THE DETENTION OF POOR CHILDREN IN ALMSHOUSES.

SECTION 1. It shall be the duty of the overseers of the poor in any city of the commonwealth to place all pauper children who are in their charge, and who are over four years of age, in some respectable family in the state, or in some asylum therein, to be supported there by said city, according to the laws relating to the support of the poor, until they can be otherwise cared for. And the overseers shall visit such children, in person or by agent, at least once in three months, and make all needful inquiries as to their treatment or welfare.

SECT. 2. It shall be unlawful to retain in any almshouse any such child

that can be cared for as above directed without inordinate expense; *provided*, that nothing herein contained shall apply to any child that has no legal settlement in the state, nor to any child that is idiotic or otherwise so defective bodily or mentally as to make such child's retention in an almshouse desirable, nor to any child under the age of eight years whose mother is an inmate of the almshouse and a suitable person to aid in taking care of such child.

SECT. 3. All acts and parts of acts inconsistent herewith are hereby repealed. [Approved March 12, 1879.

INSANE.

At the close of last year there were fourteen insane persons whose board and clothing were paid for by the city, viz :

At Ipswich.....	9 persons
Worcester	2 "
Northampton.....	1 "
Danvers.....	2 "
	14

At the present time :

At Ipswich.....	8 persons
Northampton	1 "
Danvers	2 "
	11

and the board of overseers think, with suitable apartments provided, a number might be removed from the Ipswich asylum, and quite an item of expense be saved.

OUTSIDE RELIEF.

Outside relief, which last year was granted to two hundred and sixty-two families having a settlement in Newburyport, comprising five hundred and seventy-eight persons, at a cost of \$7601.53, this present year has been granted to one hundred and sixty-six families, comprising three hundred and sixty-seven persons, at a cost of \$6184.76. Twenty-six families, comprising fifty-eight persons, having settlement in other cities and towns; and eighteen families, comprising fifty-three persons, having no settlement in the state but residing in Newburyport have also been assisted, making a total of four hundred and seventy-eight persons aided this year against eight hundred and seventy-three aided last year.

In addition to the above, one hundred and twenty-five persons have been provided for in the almshouse during the year. Forty-six meals have been furnished to tramps, making the total number

assisted by the city to be six hundred and forty-nine, against eleven hundred and nineteen last year.

PHYSICIANS' REPORT.

The care of the sick during the year past—of those who were found unable to pay for medical attendance and medicine—has been entrusted to Dr. E. P. Hurd in wards one, two and three; in wards four, five and six to Dr. F. A. Howe; and those desiring homœopathic treatment have been under the care of Dr. F. A. Hale. The almshouse has been under the care of Dr. Hurd, who has paid daily visits during the year.

Number of visits paid by Dr. E. P. Hurd, in wards 1, 2, and 3.....	365
“ “ “ Dr. F. A. Howe, “ 4, 5, and 6.....	47
“ “ “ Dr. F. A. Hale, in the city at large	358
Total number of visits paid by the physicians.....	<u>770</u>

DECREASE IN PAUPERISM.

It is with pleasure that the board call your attention to the decrease in pauperism in Newburyport. Last year, 1879, eleven hundred and nineteen were assisted, or one in thirteen of our population, this year six hundred and forty-nine, or one in twenty-two, have been assisted. This is due in part to the increase in business—giving those who desire work and will seek for it an opportunity to help themselves—and to the efforts made by our secretary in investigating the case of every applicant for aid.

DETAILED STATEMENT.

FIRST QUARTER. 145 families aided having settlement in Newburyport.

With cash alone.....	14 families.
groceries alone.....	2 “
fuel alone	61 “
fuel and cash.....	20 “
fuel and groceries.....	46 “
fuel, cash and groceries..	1 “
cash and groceries.....	1 “
	<u>145</u>

Amount distributed to the above, 34 5-16 cords of wood, 107 7-8 tons of coal, \$402.25 in cash, and \$403.75 in groceries.

SECOND QUARTER. 131 families aided.

With cash alone.....	13 families.
groceries alone.....	3 "
fuel alone.....	45
" and cash.....	20 "
" and groceries.....	49 "
cash and groceries.....	1 "

131

Amount distributed to the above, 23 11-16 cords wood, 72 3-4 tons of coal, \$396.25 in cash, and \$384.65 in groceries.

THIRD QUARTER. 112 families aided.

With cash alone.....	20 families.
groceries alone.....	6 "
fuel alone.....	29 "
" and cash.....	17 "
" and groceries.....	38 "
" cash, and groceries.....	1 "
cash and groceries.....	1 "

112

Amount distributed to the above, 14 3-16 cords wood, 32 3-4 tons coal, \$406.75 in cash, and \$337.00 in groceries.

FOURTH QUARTER. 132 families aided.

With cash alone.....	18 families.
groceries alone.....	3 "
fuel alone.....	45 "
" and cash.....	22 "
" and groceries.....	42 "
cash and groceries.....	1 "
" fuel and groceries.....	1 "

132

Amount distributed to the above, 19 7-8 cords wood, 63 1-4 tons coal, \$430.25 in cash, and \$338.50 in groceries.

The following table will show the amount of fuel given out by the Overseers of the Poor, during the last ten years to persons having settlement in Newburyport:

1871....115 5-8 cords wood.	200 tons coal.
1872....109 7-16 "	202 1-8 tons coal.
1873....107 10-16 "	205 1-8 "
1874....103 "	201 3-8 "
1875....114 10-16 "	257 5-8 "
1876....145 11-16 "	338 3-4 "
1877....143 3-16 "	375 1-4 "
1878....158 9-16 "	442 1-4 "
1879....128 3-4 "	407 1-2 "
1880....91 "	274 "

PRODUCT OF CITY FARM.

400 bushels potatoes, 40 bushels onions, 75 bushels beets, 50 bushels turnips, 15 bushels peas, 15 bushels carrots, 25 bushels tomatoes, 10 bushels cucumbers, 12 bushels string beans, 7 bushels dry beans, 5 bushels parsnips, 1 ton squashes, 600 cabbages, 800 ears corn, 21 barrels apples, 1 beef, 600 pounds; 3360 pounds pork, 40 tons hay.

All the labor upon the farm has been performed by the inmates of the house. The hay last year was purchased by the committee on public property and used for the support of the city teams. This year the committee, anticipating a short crop in this department, have purchased a supply elsewhere, and the hay cut in 1880 all remains in the barns at this date.

Respectfully submitted,

JONATHAN KENISTON,	} OVERSEERS OF THE POOR.
CHARLES NOYES	
F. W. PUTNAM.	

DEXTER AND ATWOOD FUNDS.

To His Honor the Mayor and City Council:

GENTLEMEN:—The board of Overseers of the Poor would respectfully report that the income from the Dexter fund for the year ending January 1, 1881, amounting to \$99.08, and the income from the Atwood fund for the same period of time, amounting to \$282.50, have been distributed as hereinafter described in accordance with the provisions of the wills of the donors.

The income from the Dexter fund, \$99.08, has been expended as follows: In wards one and two, \$33.02 among 24 families, in sums from \$.50 to \$3.00 to each family; in wards three and four,

\$33.02 among 16 families in sums from \$1.00 to \$4.00; in wards five and six, \$33.04 among 17 families in sums from \$1.00 to \$5.00.

The income from the Atwood fund, \$282.50 has been expended as follows: In wards one and two, \$43.60 among 25 families, in sums varying from \$.50 to \$4.24, leaving a balance of \$50.66 in the hands of the overseer of the wards. In wards three and four there was in the hands of the overseer of the wards, \$76.29 at the commencement of the year, which with \$94.16 received this year makes \$170.45; of this sum, \$78.75 has been distributed among 31 families, in sums varying from \$.50 to \$4.75 each, leaving a balance of \$91.70 in the hands of the overseer of the wards. In wards five and six, of the sum of \$94.18, \$84.20 has been distributed among 40 families, in sums from \$1.00 to \$5.00 each, leaving a balance of \$9.98 in the hands of the overseer of the wards.

Respectfully submitted,

JONATHAN KENISTON,	{	OVERSEERS OF THE POOR
CHARLES NOYES,		
F. W. PUTNAM.		

REPORT OF THE DIRECTORS

OF THE

PUBLIC LIBRARY.

1880.

TRUSTEES OF THE PUBLIC LIBRARY.

ROBERT COUCH,	MAYOR.
ENOCH GERRISH,	} ALDERMEN.
ROBERT G. SARGENT,	
HENRY M. CROSS,	
ARTHUR C. RICHARDSON,	
JOSEPH HALL,	
JONATHAN KENISTON,	

DIRECTORS OF THE PUBLIC LIBRARY.

ROBERT COUCH, MAYOR,	<i>ex officio.</i>
WILLARD J. HALE, President of Common Council	"
EDWARD S. MOSELEY, Trustee of Building Fund	"
SAMUEL J. SPALDING, " " "	"
DANIEL T. FISKE, " " "	"
JOHN F. YOUNG,	Term of office expires, 1882.
ALBERT CURRIER,	" " " 1883.
HENRY M. CROSS,	" " " 1884.
OLIVER B. MERRILL,	" " " 1885.
EDWARD P. HURD,	" " " 1886.
JAMES PARTON,	" " " 1887.
JOHN J. CURRIER,	" " " 1888.

TRUSTEES OF THE PEABODY FUND.

EDWARD S. MOSELEY,	WILLIAM H. SWASEY,
EBEN F. STONE,	DANIEL T. FISKE.
JOHN J. CURRIER.	

LIBRARIAN,
HIRAM A. TENNEY.

SUPERINTENDENT OF READING ROOM,
MARTHA P. LUNT.

PUBLIC LIBRARY.

IN BOARD OF DIRECTORS, December 5, 1880.

ORDERED, That the report presented by the committee on library be accepted, and that the names of the members of this board be appended thereto, and the same be transmitted to the city council, agreeably to the requirements of section 5th of the ordinance concerning the public library.

Attest,

H. A. TENNEY, Secretary.

DIRECTORS' REPORT.

At the close of the twenty-fifth year of the existence of the public library, the directors respectfully submit to the city council their report of its condition and progress.

According to the statement of our attentive librarian, appended hereto, the library at present contains 18,614 volumes, which is an increase of 379 for the past year. It will be seen also, from the same document, that the number of persons habitually using the library has increased by three hundred. The growth of our institution, therefore, respectable as it is, we cannot claim to have been remarkable. Owing to the decline in the rate of interest during the past few years, which we presume must now be accepted as a permanent change in the financial condition of the country, that portion of the income of the library which is derived from invested funds has considerably diminished. Our rate of increase has diminished with it, and we are compelled to select from the mass of publications only those which are peculiarly adapted to the wants of our people. We believe, however, that no work of unusual interest or value has appeared during the year, either in England or in the United States, which has not been added to our collection.

The loss of income continues to be sensibly felt in

several directions. When a library is first formed the chief expense is incurred in the acquisition of books, all of which are placed upon the shelves in perfect condition; but, as time goes on, an ever-increasing sum must be annually spent in repairing those which are injured, and in replacing such as are worn out. As the number of readers increases, an urgent need arises, also, for providing several copies of the more important works, particularly while they are new. In the great cities it is not unusual for a public library to purchase many hundred copies of a new work, and to retain a large number of them after the first demand has subsided. We, too, experience a necessity of this kind. A large number of the more popular and celebrated works in our library, particularly those of fiction, biography and travels, have been in constant use for many years. Many indeed have been already worn out and replaced, and many more are in such a condition of unclean dilapidation as to be unfit to enter a well-ordered household. The need of replacing these is most urgent, and our expenditure under this head must naturally increase from year to year.

The directors lament their inability to provide in adequate measure for the wants of the library in this particular. They regret, also, that they cannot furnish as many copies of popular works as are manifestly required. Much of the best thought and more of the best feeling, a great deal of the most brilliant writing, too, produced by this generation, are to be found in novels, some of which are not merely of the most commanding interest, but have influenced the course of events, and ameliorated both the manners and the

morals of the time. To about one-half of our readers, fiction is the only literature that is congenial. We think that our library should provide judiciously, but liberally, for so numerous a body, including as it does the forlorn, the sick, and the sorrowful, who are incapable of reading anything requiring much mental exertion. The institution committed to our custody was designed primarily for the instruction and entertainment of the people at large; and, although it is in the highest degree proper to gather upon the shelves works of advanced scholarship, the directors feel that the largest class of readers in a community have the first claim upon the slender revenues at their disposal.

They trust, therefore, that gentlemen who cherish the worthy desire to make their fellow-citizens sharers in their abundance and good fortune, will take the wants of the public library into consideration. It is not desirable that an institution like ours should be disproportionately developed; but at least it should keep pace with the development of the community which maintains it. During the last seven years, the public library of Newburyport has, perhaps, scarcely done so much as this.

The directors acknowledge with great pleasure the recent bequest, by the late Joseph A. Frothingham, of one thousand dollars, the interest of which is to be employed, as the testator directs, in the addition to the library of "new and useful books." The directors trust and believe that the example of this honored citizen, who thus signalized the close of a useful and blameless life by bestowing a generous parting gift upon the community to which he belonged, a gift that will continue to benefit that community for ages to come, will

be followed by other testators, as well as by living benefactors.

In such a city as ours, where the great majority of the people are as far removed from wealth as from want, no one should be deterred from either giving or bequeathing to a public institution because he is unable to make a benefaction of imposing magnitude.

A number of public spirited gentlemen have recently presented to the Library an admirable portrait of our venerated townsman, the Rev. Leonard Withington, D. D. This excellent work, painted by a native artist, Mr. T. B. Lawson, is a permanent addition to the attractiveness of the library building. It is valuable both as an ornament and as a record, and it is a fit accompaniment to the few other works of a similar nature which adorn its walls. The time we trust, is not very distant when the public library building of this city will be a treasure-house of art and curiosity, as well as of knowledge, as similar edifices are in other cities of greater wealth than our own. In such a building accessible to all, the ornament and pride of the city, might well be gathered, at least, whatever the neighborhood possesses of excellent art and valuable rarity; which would contribute to educate and refine the whole people. It has been the experience of other communities that when space is afforded in a fire-proof edifice, contributions of this nature are offered in even excessive abundance.

The reading room continues to be a place of familiar resort to large numbers of our people. The continued munificence of Mr. W. C. Todd provides for it a selection from the best periodicals of the

time. The directors again express their regret at the insufficiency of the apartment, defective as it is in size and in other requisities. They look forward to the time when it will be in their power to provide an ample and commodious suite of well-lighted rooms, where readers of all ages and condition will find the best conveniences for reading and study, where men and women will have access to the periodicals and literature appertaining to their several vocations, and where the whole people will enjoy the benefit of a better club-house than private wealth provides for the accommodation of a few. It is the singular happiness of America that the best and costliest fruits of civilization are made accessible to every one who is capable of enjoying them. The institution of public libraries and their due development are among the most important means to this end.

We respectfully commend the public library to the care and pride of the city council and of the public. It is an institution which distinguishes and and adorns the city, which tends to equalize the condition and opportunities of our own people, and which presents a constant and strong attraction to the most desirable residents from beyond our limits.

JOHN J. CURRIER,
DANIEL T. FISKE,
EDWARD S. MOSELEY,
JOSEPH B. MORSS,
SAM'L J. SPALDING,
JAMES PARTON,
WM. A. DAVIS,
JOHN F. YOUNG,
ALBERT CURRIER,
HENRY M. CROSS,
OLIVER B. MERRILL,
EDWARD P. HURD.

DIRECTORS
OF THE
NEWBURYPORT
PUBLIC LIBRARY

LIBRARIAN'S REPORT.

To the Committee on Library:

GENTLEMEN:—With the closing of the year it becomes incumbent upon the librarian, under the provision of the rules and regulations, to present to the committee on library, a detailed and circumstantial report of the condition and increase of the library during the year.

At the expiration of the year 1879, the shelves of the library contained 18,225 volumes. The additions since that time amount to 379 volumes, and were received as follows:

From the Peabody fund	.	.	.	130	volumes.
“ Sawyer fund	.	.	.	128	“
“ Bradbury fund	.	.	.	26	“
From donations	.	.	.	95	“

The library therefore now contains 18,614 volumes. This statement may not prove strictly correct, for the reason that among the donations a considerable portion will be found to be of an obsolete character, (such as old sermons, together with documentary and other statistical works, chiefly duplicates,) and therefore it may not be deemed expedient to give them a place on the shelves.

Some thirty or more volumes have been purchased to replace the same numbr of worn out works that have been discarded from the shelves.

The many years of exhaustive wear have so told upon the department of fiction that it has been deemed needful to discard and remove from the shelves upwards of one hundred and twenty-five volumes which had become so dilapidated as to be unfit for further use. It is feared that the same process will have to be repeated in coming years.

An examination of the shelves has been concluded which shows that eight books are now missing, having been lost during the past year. They have been sent for, but as some of the parties who held them have removed from the city, while others have failed to respond to the summons, the books are regarded as lost, but it is quite probable that some of them may yet be returned. The value of them, however, should none be returned, will be quite inconsequential as they were much worn, and of small cost when new.

A list of donations for the year with the names of the donors, together with a supplemented catalogue of the additions to the library has been prepared for publication.

Three hundred names have been added to the rules and regulations, by persons who desired to avail themselves of the library during the past year.

Respectfully submitted,

HIRAM A. TENNEY, Librarian.

S. J. SPALDING,	}	COMMITTEE ON LIBRARY.
ALBERT CURRIER,		
JAMES PARTON.		

Newburyport, Nov. 27, 1880.

REPORT OF THE TREASURER OF THE PEABODY FUND.

In conformity to the requirements of Mr. George Peabody, who, in his munificent gift of fifteen thousand dollars to five trustees and their successors for the benefit of the public library of the city of Newburyport, coupled with it the direction that an annual report of their action and the condition of the fund should be published, the treasurer thereof hereby makes known that the principal remains in the Institution for Savings, where it was originally deposited, from which it can only be withdrawn by the written order of a majority of the board of trustees.

The income during the year has been six hundred dollars. Of this amount two hundred eighty-two dollars, nine cents, remains, for the moment, unexpended; the remainder, including the amount on hand at the commencement of the year when the last report was made, having been used in adding one hundred and thirty standard books, some of high cost, to the public library, and in paying the salary of the superintendent of the reading room, which is, connected with it.

EDWARD S. MOSELEY, Treasurer.

EDWARD S. MOSELEY,	}	TRUSTEES.
EBEN F. STONE,		
WILLIAM H. SWASEY,		
DANIEL T. FISKE,		
JOHN J. CURRIER.		

Newburyport, December 6, 1880.

REPORT OF THE TREASURER OF THE BUILDING FUND.

TO THE DIRECTORS OF THE PUBLIC LIBRARY:

Above the cost and preparation of the building and grounds presented to the city, there remained unexpended of the subscription, five thousand dollars, and this sum was placed in the hands of three trustees and their successors, with authority to apply the same with the interest thereon, as might be necessary, in keeping the library building in repair.

One of the conditions of the trust requires an annual report to be made to your body of the state of the fund. In pursuance thereof, the treasurer respectfully represents that the principal remains in the Institution for Savings, where it was originally deposited and from which it can only be withdrawn save by the unanimous order of the trustees.

The deposit now amounts to \$6807.20. During the year \$90.25 has been expended in repairs upon the building.

EDWARD S. MOSELEY, Treasurer.

EDWARD S. MOSELEY, }
SAMUEL J. SPALDING, } TRUSTEES.
DANIEL T. FISKE. }

Newburyport, December 6, 1880.

REPORT OF THE TREASURER OF THE TODD FUND.

NEWBURYPORT, September 8, 1880.

TO THE DIRECTORS OF THE PUBLIC LIBRARY:

Gentlemen:—Annexed please find a statement of the receipts and expenditures of the Todd fund since my last report:

Amount on hand December 1, 1879, as reported	\$182 65
Cash received from William C. Todd, July, 1880	300 00
	<u>\$482 '65</u>

EXPENDITURES.

For newspapers, periodicals, &c., paid	\$272 70
Balance paid Rev. S. J. Spalding, Treasurer	209 85
	<u>482 65</u>

Respectfully submitted,

WARREN CURRIER.

TO THE DIRECTORS OF THE PUBLIC LIBRARY:

The undersigned having been elected to fill the vacancy in the office of treasurer of the Todd fund, occasioned by the resignation of Hon. Warren Currier, would respectfully report that an unexpended balance amounting to \$209.95 was placed in his hands August 8, 1880. Of this sum, \$23.75 has been paid for subscriptions to publications which expired in September and October. The balance, \$186.20, remains to be applied to subscriptions which must soon be renewed.

The report of the superintendent, Miss M. P. Lunt, speaks of the growing value of this department of the public library, and of its great and assured success.

Numbers of young men keep in mind the day on which the "Scientific American" is due and are on the watch for it. The same paper is kept on file one week, but is never put away entirely; a day seldom passes without calls for the back numbers, that articles once read may be gone over again. And the same may be said of the "Popular Science Monthly," of "Johnson's Atlas," and the maps of Essex county, and Worcester's Dictionary. The benefit of the last three works is not confined to men, but ladies spend much time consulting them and sometimes bring lists of works to be looked out. Many intelligent working people learn here, for the first time, where to find something on subjects in which they feel an interest. It would add very much to the usefulness of the reading room if a few additional works of reference could be made easily accessible. There is need of a Universal Gazetteer, or some great encyclopædia. These are in the library alone, but they are very much needed in the room below

S. J. SPALDING, Treasurer.

December 3, 1880.

DONATIONS TO THE LIBRARY--1880.

BOOKS.

Vols.	Vols.
Bayley, R. A..... 24	Thorpe, Theo & others..... 1
Commonwealth of Mass., Sec. of 4	U. S. Coast Survey Office 1
Currier, Hon. Warren..... 35	“ Department of the Interior 3
Knox, J. J. U. S. Treasury Dep’t 1	“ Director of the Mint..... 4
Mass. Humane Society..... 1	“ Naval Observatory..... 2
Moseley, E. S. 33	“ Treasury Department..... 4
Seymour, H. jr 1	Vassar College..... 1
Silloway, T. W..... 22	Welch, R..... 3
Smithsonian Institute..... 3	

PAMPHLETS.

Vols.	Vols
Bayley, R. A..... 35	Library, Newton Free Public... 2
Butler, G..... 2	N. Y. Mercantile Asso’n 1
Buffalo Young Men’s Association 1	Peabody Institute... 1
Currier, Hon. Warren..... 110	Providence Public... 1
Cushing, L. B..... 1	San Francisco Mercan-
Lick, James, Trust Fund 1	tile Association... 2
Library, Boston Public 5	State..... 1
Brookline “ 1	Taunton Public. 1
Chicago “ 1	Treasury Department..... 6
Congressional..... 1	Toppan, R. N..... 3
Dedham Public..... 1	U. S. Bureau of Education... 6
Haverhill “ 1	U. S. Naval Observatory..... 1
Lawrence “ 5	Vassar College..... 3
Milwaukee “ 1	Wilder, Hon. M. P..... 1

DONATIONS TO THE READING-ROOM—1880.

Newburyport Herald.....	William H. Huse & Co.
Boston Advertiser.....	Edward S. Toppan.
List of Prices and Sales at Boston Stock Exchange...	Pickering & Moseley.
Unitarian Review.....	American Un. Asso'n.
Christian Register.....	“ “
New York Observer.....	John N. Pike.
Liverpool Post.....	Ross & Schofield.
Record of American and Foreign Shipping.....	James Parker, N. Y.
Congressional Record, (Daily).....	Hon. George B. Loring.
Semi-Weekly Germ.....	M. C. Teel.
Home Missionary	E. S. Moseley.

NEWSPAPERS AND PERIODICALS IN THE READING-ROOM—1880.

DAILIES.

Boston Advertiser,	New York Journal of Commerce,
“ Post,	“ Graphic,
“ Evening Journal,	“ Herald,
“ “ Transcript,	“ Sun,
“ “ Traveller,	“ Tribune,
Congressional Record,	“ World,
Newburyport Herald,	London Times,
New York Evening Post,	Liverpool Post.

WEEKLY, SEMI-WEEKLY, AND MONTHLY NEWSPAPERS.

Agriculturist,	Merrimac Valley Visitor,
American Naturalist,	Nature,
Boston Commercial Bulletin,	New York Times,
Chicago Tribune,	“ Observer,
Cincinnati Enquirer,	Philadelphia Times,
Danbury News,	Punch,
Frank Leslie's Illustrated,	Religious Magazine,
Harpers' Bazar,	Salem Gazette,
“ Weekly,	School Journal,
Journal of Chemistry,	Scientific American,
Literary World,	Springfield Republican,
Baltimore Gazette,	The Alta California.
Louisville Courier-Journal,	

MAGAZINES AND REVIEWS.

Appleton's Journal,	London Art Journal,
Atlantic Monthly,	“ Quarterly Review,
Ballou's “	New Englander,
Blackwood's Magazine,	North American Review,
British Quarterly Review,	National Review,
Contemporary Review,	Peterson's Magazine,
Edinburgh Magazine,	Popular Monthly,
Frank Leslie's Popular Monthly,	Popular Science Monthly,
Godey's Lady's Book,	Princeton Review,
Good Words,	Scribner's Monthly,
Harper's Monthly,	St. Nicholas,
International Review,	Sunday Magazine,
Lippincott's Magazine,	Supplement to Popular Science,
Littell's Living Age,	Westminster Review.

REPORT

OF THE

BOARD OF HEALTH.

GEORGE W. SNOW, (City Physician) ... Chairman.

HENRY M. CROSS

ELISHA P. DODGE

GEORGE H. STEVENS, Clerk.

CHARLES H. DEROCHEMONT, Health Officer.

1880.

REPORT.

Under the general statutes of the commonwealth, until the year 1878, the selectmen of towns and the mayor and aldermen in cities, had exclusive control of all regulations in regard to matters affecting the public health; but by Chapter 133 of the Acts of 1877, it was provided that in each of the cities of the commonwealth, except Boston, Boards of Health should be established, consisting of the city physician, and two persons not members of the city council. Where two persons are appointed by the mayor and aldermen the term of office is for two years. The Board thus constituted has all the powers and duties in regard to the public health, which were formerly exercised by the mayor and aldermen. under the general and special statutes and ordinances now in force.

The Board is required to organize on the first Monday in February in each year, and they are allowed to choose a clerk not a member of the board, and to make such rules and regulations for their own government and for that of all subordinate officers in their department as they may deem expedient.

They also have power to appoint such subordinate officers, agents, and assistants as they may deem necessary, and may fix their compensation, provided that the whole amount of such compensation shall not exceed the sum appropriated therefor by the city council. The Board is also required annually, in the month of January, to present to the city council a full and comprehensive statement of their doings during the preceding year, and a review of the sanitary condition of the city, and also, when required, an estimate in detail of the appropriation required by the department during the next financial year.

The act establishing the Board of Health was accepted by the legal voters of Newburyport, November 6, 1877. Two annual reports have thus far been made.

The Board in 1878 consisted of Warren Currier, chairman; D. T. Woodwell and Dr. George W. Snow. In 1879 of Warren Currier, Dr. George W. Snow, and H. M. Cross. In 1880 of Dr. George W. Snow, Henry M. Cross, and Elisha P. Dodge

At the close of this, the third annual report, will be found the statistics of deaths in Newburyport during 1880. The total number reported was 303 in 1879,—142 males, 161 females; and 287 in 1880—138 males, 146 females, and three still born, sex unknown.

If a deduction is made, in accordance with the following statement, of deaths resulting from accident, old age, etc., it will appear that the mortality from other causes has been thirty-two less in 1880 than in 1879.

	1879.	1880.
Total number of deaths.....	303	287
Accidental.....	6	12
Still born or premature birth.....	9	10
Old age.....	19 34	28 50
	<u>269</u>	<u>287</u>

The actual mortality, based on a population of 13,600, shows a death rate of nearly twenty-one per thousand.

The nativity of those deceased during the year is as follows :

Newburyport.....	185
Massachusetts.....	26
Other states.....	32
Foreign countries.....	43
Unknown.....	1
	<u>287</u>

Classified as follows :

Single.....	142	Male.....	138
Married.....	74	Female.....	146
Widows.....	58		<u>284</u>
	<u>284</u>		

Seventy-nine bodies have been brought to this city for interment of persons who have died elsewhere.

There has probably been a slight increase in the population of the city, and the figures show a generally improved condition of health compared with 1879. A new system of classification of diseases has been adopted, and as it will be continued from year to year, comparative statements can be more readily noted and the increase or decrease of various causes of deaths more easily observed. It is fortunate that the new form was adopted for 1880, as water is

to be introduced into the city the present year, and it will be very interesting and important to note the comparative changes in those forms of disease which are known to be affected by questions of water supply and drainage.

NUISANCES

1. **PIG PENS.** As in previous years, pig pens within the health limits have furnished by far the greatest number of complaints which have been brought to the attention of the Board, and this will always be the case while the keeping of swine is tolerated. The Board now wish to announce that they will not, during the year 1881, license the keeping of swine within the health limits, except in barn cellars or in connection with stables, and then only under conditions approved by the Board.

2. **PRIVY VAULTS.** There have been several complaints caused by over-flowing vaults, but in most cases the nuisance has been promptly abated by the parties responsible, as soon as notice was sent them by the Board.

During the past year the Board have made an arrangement which has permanently abated the nuisance arising from the cleaning out of vaults by the old method, which has for time immemorial offended the senses of sight and smell. A contract has been made with the Eagle Orderless Apparatus Co., under which they are to have for three years the exclusive right to clean out the vaults and cess pools within the health limits of Newburyport. Before the expiration of the contract, we are of the opinion that it will be evidently for the interest of the city to own and operate the apparatus.

3. **BOXE BOILING.** There have been continual complaints of the offensive odors arising from the works on Low street, and after giving the owner every possible opportunity to so manage his business as to avoid the complaints, the Board is satisfied that it is not possible for the business so to be conducted in that locality as not to be a nuisance; at the same time we have been anxious to put no unnecessary hardship upon the proprietor, and have for this reason avoided any hasty or arbitrary action in the matter. The owner has now agreed to wholly abandon the business in that locality, on or before the first of April next, and we are confident that he will comply with his agreement, and that no further action of the Board will be needed.

4. THE REMOVAL OF HOUSE OFFAL. The persons whose piggeries have been the greatest source of complaint are those who have collected the greater part of the house offal. When they are no longer allowed to maintain their piggeries, their occupation as swill collectors will be gone. With this in view the Board have deemed it necessary to provide some method for the removal of house offal. In June, 1880, the Board contracted with Messrs. J. R. & F. H. Adams of Newbury, giving them the exclusive right to remove house offal within the health limits, requiring them to use a covered cart, and to make their collections regularly and to the satisfaction of the public. There have been numerous complaints of neglect by the contractors, but not as many lately as during the earlier months of the service. If the contract system cannot be made to operate satisfactorily it will be necessary for the work to be done by the city, as is already customary in many other places.

BURYING GROUNDS.

Since the organization of the Board we have had charge of the burying grounds on Old and New hills, and have expended the annual appropriation in keeping the premises in proper condition. For this purpose an annual appropriation of about \$200 will be needed.

METEOROLOGICAL OBSERVATIONS.

A copy of Mr. Karl Castelhun's annual report will be found at the close of this report. These observations when properly kept and recorded for a term of years, become of great scientific value, as showing the effect of the weather upon health, and it is important that the record already begun and carried on for the past two years should be continued. The labor involved is so great that we cannot expect Mr. Castelhun to continue it without some compensation, and in our estimate of expenses for 1881, we shall include a small sum to be paid for this services.

BATHING HOUSES.

We renew the recommendation of former reports and quote from the report of last year:

“We feel obliged to again call the attention of the council to the urgent necessity of providing a public bathing house for the use of men and boys. Each season the number of pleasure boats on the river increases, and thus the opportunities for bathing in the river without being exposed to the public gaze decreases.

“ Dr. Bowditch of the National Board of Health recommends a daily bath as a sanitary measure for all classes of society, the poor as well as the rich, and there is no class of people who feel the need of a daily bath during the summer months, more than the people who work in our various factories. Surely if the council, by an ordinance, make it a criminal offence to bathe from wharves or where exposed to public view, it can do no less than provide suitable accommodations for the men and boys who desire to keep their bodies in a healthful condition.”

AGENT OF THE BOARD.

The Board have thus far not availed themselves of their right to appoint an agent, but the need of such an officer has been so apparent the last year that we can no longer carry on the business of the Board without an agent, whose duty it will be to personally investigate all causes of complaint and report upon them to the Board.

CLOSING.

The regulations of the Board of Health are printed in the new city manual for 1880, to which all interested are referred.

The powers and duties of the Board under the laws, are extensive and in most cases positive, and their action final. We deeply feel the responsibilities resting upon us, and earnestly request the full support and co-operation of the citizens in doing all that can be done to maintain in the city, the conditions upon which good health are so largely dependant.

All citizens are hereby requested to inform the Board, in writing, of any thing which they may regard as a nuisance in any way detrimental to the public health. All such communications should be addressed to the “Clerk of the Board of Health, City Hall,” and will be considered as confidential. The Board will investigate every alleged cause of complaint, and will see that the required action is taken in each case.

Respectfully submitted,

GEO. W. SNOW,
E. P. DODGE,
H. M. CROSS.

Newburyport, Jan. 3, 1881.

STATISTICAL ACCOUNT OF DEATHS IN NEWBURYPORT

CAUSES OF DEATH.	SEX.		Total	January	February	March	April	May	June	July
	Male	Female								
CLASS I.—Zymotic Diseases:										
Scarletina	5	8	13			1		1	3	
Diphtheria	7	5	12			2				
Croup	4	2	6	1	1					
Whooping Cough	1	1	2		1					
Erysipelas	3	2	5		1	1		1	1	
Puerperal Fever		2	2						2	
Typhoid	4	2	6		2		1			
Dysentery	3	3	6						1	2
Cholera Infantum	3	5	8					1		1
Cholera Morbus	2		2							
Rheumatism and Pericarditis		1	1		1					
CLASS II.—Constitutional Diseases:										
Dropsy		1	1							
Cancer	1	7	8	2		1	1	1		1
Scrofula		1	1							
Phthisis	27	24	51	7	7	6	4	4	2	5
Hydrocephalus	4		4	1				1		
CLASS III.—Local Diseases:										
Apoplexy	8	2	10	1	2	1	2			
Paralysis	5	6	11		1	1	2	1	2	1
Epilepsy	2	1	3							2
Convulsions	3	5	8	2		1	2	1	1	
Brain Diseases	5	3	8		1	2				1
Nervous Prostration		2	2				1			
Spinal Sclerosis		1	1	1						
Heart Diseases	7	5	12	2	3		1	1	1	1
Bronchitis	1	3	4	1						
Pneumonia	6	8	14	1		2	7		3	
Congestion of the Lungs	2	1	3			1		1		
Emphysema		1	1		1					
Gastritis		2	2			1				
Endogastritis		1	1		1					
Stomatitis		1	1							
Peritonitis		1	1							
Hernia—strangulated	1	1	2		1					
Hepatitis		1	1		1					
Addison's Disease		1	1					1		
Albuminuria	1		1	1						
Bright's Disease		3	3							
Diabetes	1	1	2			1				1
Cystitis	1	1	2			1				
Marasmus	2	2	4	1					1	
Abscess—part not stated		1	1							1
CLASS IV.—Developmental Diseases:										
Still-born			3	1						
Premature Birth	2	2	4	2		1				
Infantile Debility	1	2	3						2	
Inanition		2	2		1					
Tedious Labor	1	1	2					1		
Rupture of Uterus		1	1					1		
Old Age	8	20	28	5	1	3	2	1	3	4
Atrophy and Debility	6	2	8							2
CLASS V.—Violent Deaths:										
Debility from Fracture of Femur		1	1							1
Drowning—Accidental	2		2							
Accidental	6		6						1	
Suicide—Hanging	1		1				1			
Prostration from Heat	1		1						1	
UNKNOWN	1		1							
	138	146	287	29	25	27	24	17	24	25

REPORT OF METEOROLOGICAL OBSERVATIONS

FOR THE YEAR 1880.

To the Board of Health :

GENTLEMEN — I herewith present the results of the meteorological observations for the year 1880. According to the present custom the instruments were read off three times daily : at 7 a. m., 2 p. m., and 9 p. m. The instruments in use were a barometer, thermometer, maximum and minimum thermometer, hygrometer, rain gauge, and wind vane. Besides, attention has been paid to the force of the wind, the appearance of the sky, to auroras and other phenomena.

I.—ATMOSPHERIC PRESSURE (BAROMETER).

The annual mean height of the barometer was 30.025 inches. The monthly means are :

January.....	30.165	July.....	29.958
February.....	30.042	August.....	30.038
March.....	30.011	September.....	29.995
April.....	29.950	October.....	30.053
May.....	30.016	November.....	30.178
June.....	29.954	December.....	29.939

The highest pressure occurred on January 29,—30.800 ; the lowest on March 5,—29.133 ; giving a range of 1.677 inches. The monthly variations were, on an average, 1.024 inches ; the greatest for March (1.493), and, on an average, 1.251 inches for January, February, March, October, November, and December ; the smallest for July (0.516), and 0.798 inches, on an average, for April, May, June, July, August, and September ; showing that atmospheric dis-

turbances were more violent in the winter and spring months than in summer. A sudden fall of pressure is on record on the third of February: 0.847 inches within twelve hours and 1.245 inches within twenty-four hours. It occurred during the severest snow storm of the year, a furious gale from the northeast blowing all day.

Besides these irregular (*accidental*) oscillations of the barometer, continuous observations show another *periodical* one, viz: a fall of 0.042 inches from 7 a. m. to 2 p. m., and a rise again of 0.030 inches until 9 p. m. This oscillation is small, but most regular throughout the year.

II—TEMPERATURE (THERMOMETER).

Mean temperature for the year, 48.1°. Monthly means:

January.....	33.1	July	69.7
February	30.5	August	67.6
March	32.3	September	63.5
April	45.8	October	49.2
May	60.9	November	36.5
June.....	66.0	December	25.6

In July there was the highest, 97°, in February and December the lowest, —3°, a difference of 100°. The highest and lowest temperature, and the average daily range for every month, may be seen in the following table:

MONTH.	Max.	Min.	Av. Daily Range	MONTH.	Max.	Min.	Av. Daily Range
January	59	9	15.6	July.....	97	50	20.5
February	64	—3	20.7	August	94	43	22.9
March	70	12	17.0	September	93	41	20.6
April.....	73	22	22.2	October.....	79	28	21.7
May.....	96	32	25.2	November	67	11	15.6
June.....	92	44	23.6	December.....	46	—3	14.0

It will be noticed that the average daily range for the spring and summer months was nearly six degrees larger than for the winter months. The month of May, especially, leads the rank in this respect; the record of the eleventh shows a difference of 45° in the maximum and minimum temperature, the greatest of the year. The average daily difference of 25° was also the highest of any month.

A remarkable change of temperature was experienced on the twelfth of May. At 4:30 p. m. the thermometer stood at 64°,

during an easterly wind, which, suddenly shifting to a very moist south-wester, sent up the mercury within a few minutes to 84° .

III.—HUMIDITY (RELATIVE AND ABSOLUTE.)

The air always contains more or less water in gaseous form. Its capacity for retaining the water increases with the increase of the temperature, that is, the actual amount of water (*absolute* humidity) contained in the air at 90° is greater than that at 40° , although in both cases the air may be saturated with moisture. The amount of humidity is expressed in percentage referring to the point of saturation, which is 100.

The following may better illustrate the difference between absolute and relative humidity: We find, for example, the relative humidity at one time to be 70 per cent at a temperature of 90° ; this means that the air contains only 70 per cent of that quantity of water which would be necessary to saturate it at a temperature of 90° . At another time we find a relative humidity again of 70 per cent but at a temperature of 40° . In the former case one cubic foot of air contains 10 1-2 grains of vapor, in the latter only 1 1-2 grains. Thus the *relative* humidity is the same at different temperatures, but the *absolute* humidity is smaller at the lower temperature.

“Dew point” is another term used so much in connection with relative humidity, that some explanation about it may be in place here. It signifies that temperature, to which the air, if not saturated with moisture, must be lowered so as to be just at the point of saturation, or in other words, an object of that temperature will cause the moisture to condense on its surface as “dew.” The dew point therefore is but another direct means for measuring the humidity of the air. The smaller the relative humidity of the air, the lower will be its dew point and vice versa; and the temperature of an air with a humidity of 100 per cent is also the temperature of its dew point.

The relative humidity forms an important, perhaps the most important factor for the public health officers to deal with. We all experience the depressing influence of a sultry air. This state of the atmosphere, common during July and August, and well known as “dog day” weather is produced by a high temperature ($80-90^{\circ}$)

with a high percentage of humidity. Just so are we familiar with that chilly air frequent in winter and spring (March) against which hardly any clothing seems to offer protection. A very high relative humidity is also the cause of this state of weather, but combined with a low temperature (20° — 35°). The prevalence of colds, coughs, bronchial and rheumatic affections at that season, is surely one of its effects.

The relative humidity is on a great measure dependent on the direction of the wind. For our section the easterly and southerly winds, sweeping over a large area of water will bring us more moisture than the westerly, which the observations for the past year confirms :—

Wind.	}	N.	N. E	E.	S. E.	S.	S. W.	W.	N. W.
Average annual rel. humidity. p. c.		78.3	84.0	74.0	70.2	79.9	70.7	64.7	61.1

The mean annual relative humidity of the past year was 68.5 per cent; the lowest, 13 per cent, occurred in February, wind N. W. ; each month had also at different times its maximum (100 per cent) April and May excepted (maximum 97 and 96 per cent). The mean absolute humidity was 3.2 grains in one cubic foot of air. The monthly means show an increase until July, 6.06 grains, and a decrease until December, 1.19 grains. The highest absolute humidity observed was 9.3 grains on the 4th of September, the lowest on the two last days of December, being less than 1.2 grain in 1 cubic foot, which corresponds to a dew point of about 20° below zero.

RAIN AND SNOW. The total precipitation in form of rain and snow was 32.51 inches; an average of 2.71 inches for every month, and during a period of 755 hours, that is 0.043 inches per hour. Comparing it with the average rainfall in a number of years in the New England states, which is 45.19 inches, we find a deficiency of 12.68 inches; and a deficiency of 0.87 inches as compared with the rain fall in the last six months, 1879, in this place.

MONTH.	Duration. Hours	1880. Inches.	1879. Inches.	N. E. av. several years.	MONTH	Duration. Hours	1880. Inches.	1879. Inches.	N. E. av. several years.
January.	93	4.02	.....	3.26	July	66	5.21	3.16	4.29
February	71	2.99	.....	2.97	August ...	43	2.18	4.62	4.05
March ..	115	3.09	.. ...	5.39	September	41	1.69	1.87	3.08
April ...	48	2.50	.....	4.13	October ...	40	2.82	0.81	3.87
May	43	1.19	.....	2.50	November	77	2.81	3.88	4.83
June	47	1.56	.....	3.80	December.	67	2.45	3.69	3.03

Special heavy rains may be mentioned on May 30 to 31, June 1, July 3, August 3, and October 22.

Two weeks in the year passed without any rain; the longest rain less interval was 14 days, from September 29 till October 12.

The total depth of snow fall was nearly 32 inches; the first snow in 1879 fell on November 11; in 1880 on November 14. The last on March 27-28; and at the end of March all snow had disappeared from the ground.

WIND. The total average direction of the wind during the year may be represented by a line nearly W. to E., or, more accurately, from W. 3° S. of the compass. This average annual direction is derived from the monthly averages, which are the results of the daily observations. The monthly mean directions were also from within the western quarters of the compass, having as the most northerly point, W. 45° N., in March, and the most southerly, W. 73° S., in July. Between these two extremes, covering an area of 118° of the circle, lay the mean directions of the other months, viz: Southwest quarter—April, May, June, July, August, and September; northwest quarter—October, November, January, February, and March. The prevailing winds during the year were the northwest, having the highest number in the observations, 273. Then follows southwest, 205; west, 193; southeast, 132; south, 99; northeast, 91; north, 53, and east, 48. The northwest winds were also the predominant ones in January, February, March, April, October, November, December; west and south winds in May; southeast in June and July, and southwest in August. The yearly average temperature of the wind are:

N.	N. W.	W.	S. W.	S.	S. E.	E.	N. E.
42.1	45.8	50.3	51.7	53.1	68.9	50.7	44.3

This relation of the temperature to the wind is, however, different at different seasons; for instance, during the summer months—May, June, July and August, the east winds are on an average 8 degrees cooler than the west winds; whilst during the winter months—November, December, January and February, they are about 4 degrees warmer than the west winds.

As regards the velocity of the wind, we find that in general the highest velocity is observed with northwest, east and northeast winds. It was approximately 30—40 miles per hour, corresponding to a pressure of from four to eight pounds to the square foot.

Calms are comparatively rare in our locality, the record showing only a few in the whole year.

STATE OF THE WEATHER.

The combination of all meteorological conditions constitutes what is called the "weather." Although its varieties are known by many names, we distinguish here only three states from the aspect of the sky: calling it *clear* when the mean of the three daily observations shows the face of the sky covered less than one-quarter by clouds; *fair*, when one-third to three-quarters, and *cloudy* when more than three-quarters of the whole sky is covered. Reviewing the record we find that the number of clear days was 115, or 31 per cent; fair days, 79, or 20 per cent; cloudy, 101, or 27 per cent. There were also 21 days on which rain or snow was falling. The greatest number of clear days in a single month was in February—15; the smallest, March—5; the number of perfectly cloudless days is small, viz: 20, or only 5 1-2 per cent.

Thunderstorms occurred during a period of six months (the first May 4th and the last October 12th): In May, 2; June, 5; July, 2; August, 1; October, 1. They brought us in the whole 1.37 inches of rain, that is, only 1-22 of the total rainfall of the year, and only 0.13 inches for each shower.

AURORAS. The number seen was twelve, one each in March, April, July, and October, four in August, and two each in September and November. The most brilliant ones were witnessed on two successive evenings, August 12 and 13. We were also visited by an *Earthquake* on the twelfth of May, which was felt over some parts of New England.

The general meteorological character of the last year may be summed up with a few words: Abnormally high temperature in January and February, warm spring, hot summer, autumn normal but very dry, and early and cold winter. A comparison of the monthly means with the normal of the New England states observed for several years will show the monthly deviation of temperature.

MONTH.	N.E. av. several years.	Average 1880.	Average 1879.	MONTH.	N.E. av. several years.	Average 1880.	Average 1879.
January. . . .	22.7	33.1	.....	July	70.2	69.7	68.7
February . . .	24.6	30.5	.....	August.	68.2	67.6	66.7
March	31.3	32.3	.....	September ..	60.8	63.5	59.4
April	42.4	45.8	.....	October	50.9	49.2	55.0
May	54.8	60.9	.....	November. . .	37.6	36.5	38.1
June	64.3	66.0	63.1	December ..	31.2	25.6	31.1

As, by all probability, the temperature of January, 1881, will be below the average, we are justified in expecting an increased death-rate for all ages, particularly for the old-aged. The number of new cases of sickness is also increased by every degree below the normal temperature. It would be of much interest if the necessary statistical material could be collected to prove the correctness of that statement for our city.

In conclusion, we may state that this, our first report, is only a step toward establishing the climatology of our locality, which requires observations extended over many years.

KARL CASTELHUN.

Newburyport, January, 1881.

REPORT

OF THE

CHIEF ENGINEER.

1880.

REPORT.

NEWBURYPORT, December 1, 1880.

To His Honor the Mayor, and City Council:

GENTLEMEN :—I have the honor to present, as required by the rules and regulations of the department, my annual report of the condition of the department at this date ; also a list of the members of the various engine companies with their ages, occupation, and residences ; the apparatus connected with the department ; number of fires and alarms ; amount of losses and insurance ; water supply, and other matters of interest.

APPARATUS.

The apparatus in service is in excellent condition and consists of three second class Amoskeag steam fire engines ; one second class Jeffers hand engine ; one first class Button hand engine ; one Button and Blake hook and ladder carriage ; two Amoskeag four-wheeled hose carriages ; one Button & Son four-wheeled hose carriage ; one two-wheeled jumper for hauling engine. One hand engine with hose carriage attached (out of service) ; one first class Portland steam fire engine, (out of service) ; one two-wheeled hose carriage (out of service).

HOSE.

The present amount of hose consists of 8850 feet, divided as follows : 6550 feet of leather hose ; 2000 feet of American jacket hose ; 300 feet of composition rubber hose.

I would earnestly recommend the immediate purchase of at least 2000 feet of cotton rubber-lined hose to fill the discrepancy between the amount of hose in service the present year and that of former years, said discrepancy being occasioned by the condemnation of a number of thousand feet of worthless leather hose in 1878.

LIST OF FIRES AND ALARMS.

From December 1st, 1879 to December 1st, 1880.

Dec. 18, 1879.—Moses Jackman, rope-walk, Marlborough street; loss \$20; insured; cause accidental.

Dec. 25, 1879.—Bayley hat shop; loss \$75,000; insurance \$39,125; cause unknown.

Jan. 1, 1880.—House 134 Merrimac street, Mr. Coffee, owner; loss slight; cause, overturning of a candle.

Jan. 17.—Building head of Central wharf; extinguished by Chief Engineer Goodwin and Captain John Sargent; no alarm; cause, overturned stove.

Feb. 2.—Chimney on fire in Prince place; no alarm.

Feb. 21.—Building 33 State street; occupants, G. W. Austin and H. P. Macintosh; loss \$1050; insurance \$1450.

April 17.—Building corner of High and Jefferson streets; insurance \$800; loss \$1000; cause unknown.

May 24.—Chips and timber at Jackman's ship yard; extinguished by No. 7.

Sept. 27.—House corner School and Federal streets, owned and occupied by John H. Carter; loss \$3800; insurance \$2400.

Oct. 17.—Barn in Newbury, owner, R. Jaques; loss \$800; covered by insurance; cause incendiary.

Oct. 17.—General alarm; fire, Union street, ward 1; cause, children playing with matches; no loss.

Nov. 23.—General alarm; box of clothing in house 28 Ocean street; loss slight

Nov. 25.—Store of A. J. Atkinson, corner State and Pleasant streets; articles in show window; loss \$20; insured; accidental.

Nov. 26.—Wooden building at Moultonville owned by H. W. Moulton; loss \$300; insured; cause incendiary.

APPROPRIATION AND EXPENDITURES.

Appropriation.....	\$6500 00
Credit.....	20 00
	<u>\$6520 00</u>
Overdrawn	718 01
	<u>7238 01</u>

MONTHLY EXPENDITURES.

January.....	\$ 676 95
February	263 37
March.....	215 12
April.....	300 49
May.....	2050 64
June	64 66
July.....	93 34
August.....	143 95
September.....	346 84
October	287 89
November	2399 00
December	395 76
	7238 01

MEMBERSHIP.

The department consists of 162 members, divided as follows : Chief engineer and six assistants ; one hook and ladder company of twenty men ; three steam fire engine companies of fifteen men each ; and two hand engine companies of forty-five men each.

BOARD OF ENGINEERS.

Rank.	Name.	Age.	Occupation.	Residence.
Chief.	John S. Frost,	42	Shoemaker,	12 Harrison street.
1st. Asst.	George B. Hicken,	46	Ship carpenter,	Willow avenue.
2d. "	Selwyn C. Reed,	35	Photographer,	18 Fair street.
3d. "	E. S. Dole,	34	Hatter,	Oakland street.
4th. "	J. H. Curran,	30	Blacksmith,	39 Prospect street.
5th. "	A. G. Knight,	48	Shoemaker.	Bromfield street.
6th. "	W. H. B. Currier,	37	Carpenter,	Washington street

YOUNG AMERICA HOOK AND LADDER COMPANY, No. 1.

TWENTY MEMBERS.

House on Pleasant street.

Foreman—A. W. Hardy,

Clerk—W. H. Bowlen,

Ass't Foreman—F. P. Tebbetts,

Steward—C. B. Cressey.

Treasurer—C. H. Shackford.

MEMBERS.

Name.	Age.	Occupation.	Residence.
A. W. Hardy.....	31	Shoemaker,	Summer street.
F. P. Tebbetts	27	Barber,	Liberty “
G. W. Bowlen	26	Shoe packer,	Market “
C. H. Shackford	23	Barber,	Fair “
A. W. Whitmore.....	36	Baker,	Titcomb “
G. H. Griffith	22	Barber,	Middle “
B. P. Ireland....	25	Engineer.	Unicorn “
W. R. Mason.....	34	Painters,	Titcomb “
C. S. Blake	28	Merchant,	Liberty “
A. J. Leighton.....	43	Teamster,	Unicorn “
C. B. Cressey	30	Baker,	Olive “
G. H. D. Leighton.....	25	Painter,	Bromfield “
T. Salkins	30	Hostler.	Unicorn “
W. A. Noyes.....	30	Teamster,	Prospect “
F. A. Lattime.....	23	Shoemaker,	Pine “
J. F. McIntosh.....	29	“	Merrimac “
E. Noyes	25	“	Fair “
J. E. Meader.....	29	Mason,	“ “
A. L. Chase	27	Shoe cutter,	Prospect “
John Ponden.....	35	Mill operative,	Beck “

Property owned by the City in charge of this Company:

One hook and ladder truck fully equipped with ladders, guy ropes, ropes, crotch poles, hooks, rakes, forks, chains, drag ropes, street ropes, 4 ladder dogs, 2 hammers and belts, 2 ice cutters, 2 picks, 4 axes, 1 bar, 2 torches, 1 Johnson pump, 1 trumpet, 5 wrenches, 1 tool box, whiffletrees, broom, dust pan, dust brush, floor brush, duster, water pail, sprinkler, 2 stoves and funnel, 12 chairs, 2 settees, clock, wash bowl, coal hod and sifter, etc.

H. P. MACINTOSH, STEAM FIRE ENGINE COMPANY, NO. 1.

FIFTEEN MEMBERS.

House in Market Square.

Foreman—G. H. Peavey.

Clerk—L. G. Senior.

Assistant Foreman—E. P. Allen.

Treasurer—Geo. H. Stevens

Engineer—S. P. Boardman.

Fireman—E. M. Bickford.

Assistant Engineer—F. Hardy.

MEMBERS.

Name.	Age.	Occupation.	Residence.
G. H. Peavey.....	30	Tinsmith,	10 Temple street.
E. P. Allen.....	25	Moulder,	54 Liberty “
L. Senior.....	30	Shoemaker,	8 Hale's court.
G. H. Stevens	40	Clerk,	37 Kent street.
G. E. Bamford.....	35	Clerk,	2 Unicorn “
S. P. Boardman.....	35	Machinist,	Merrimac “
F. Hardy.....	30	Moulder,	Birch “
C. M. Bickford,.....	28	Operative,	Middle “
G. L. Richardson	26	“	Purchase “
S. H. Guptil.....	40	Teamster,	Summer “
W. T. Thompson.....	30	Mason,	Liberty “
H. G. Otis.....	30	Shoemaker,	Washington st.
W. S. Dennett.....	22	Operative,	Middle “
W. A. Goodwin.....	35	Carpenter,	Federal “
G. S. Blake.....	30	Painter,	3 Green “

Property owned by the City in charge of this Company.

One steam fire engine, 27 feet suction hose, one four-wheeled hose carriage, 850 feet $2\frac{1}{2}$ inch leather hose, 50 feet rubber hose, 60 feet 1 inch rubber hose, 15 feet rubber gas pipe, 1 Johnson pump, 2 torches, 4 lanterns, 2 buckets, 4 trumpets, 2 brass pipes, 2 copper pipes, 2 rubber pipes, 1 axe, 1 bar, 2 siamese couplings, 1 reducing coupling, 1 increasing coupling, set of spanners and belts, 2 water casks, 2 coal barrels, wrenches, drag rope, skids, 2 hammers, 4 oil cans, 2 rubber feed pipes, 1 shovel, 1 span grate, 2 jack screws, 1 hose bridge, coal hod and sifter, 1 bench, 1 vise, 2 whips, 2 horse blankets, 1 stove and funnel, 2 bunks, 2 quilts, 1 clock, pair steps, 2 settees, 16 chairs, 1 desk, 1 table, 1 door gate, wash bowl, water tank, snow shovel, etc.

MECHANIC STEAM FIRE ENGINE COMPANY, NO. 2.

FIFTEEN MEMBERS.

House on Water, foot of Federal streets.

Foreman—William McKay.

Clerk—Isaac Poor, jr.,

Ass't Foreman—W. E. Woodman.

Treasurer—Albert Tilton.

Engineer—George W. Stickney.

Fireman—Geo. M. Black.

Assistant Engineer—Caleb Stickney, jr.

MEMBERS.

Name.	Age.	Occupation.	Residence.
W. McKay.....	54	Spar maker,	Middle street
W. E. Woodman.....	43	Moulder,	Hancock "
I. Poor, jr.,.....	28	Clerk,	Lime "
G. W. Stickney.....	42	Block maker,	Water "
C. Stickney, 2d.....	20	Machinist,	Water "
G. M. Black.....	43	Shoemaker,	Bromfield "
A. Tilton.....	54	Variety Store,	High "
A. H. Taylor	51	Shoemaker,	Dove "
J. N. Follansbee	29	Teamster,	Water "
W. W. Hutchins.....	28	Rigger,	School "
D. Gaddis.....	43	"	Salem "
G. W. McKay.....	22	Clerk,	Middle "
Willard Grace.....	29	Machinist,	Hancock "
W. S. McKay.....	20	Diver,	Middle "
F. A. Goodwin.....	20	Carpenter,	Federal "

Property owned by the City in charge of this Company.

One steam fire engine, 26 feet suction hose, 1 four-wheeled horse carriage, 700 feet $2\frac{1}{2}$ inch leather hose, 50 feet rubber hose, 6 lanterns, 1 Johnson pump, 2 feed pipes, flue brush, fire bucket, 25 feet rubber gas pipe, shovel, bar, axe, oil cans, spanners and belts, wrenches, drag and hose ropes, pair brass link blocks, skids, 2 water casks, 2 coal barrels, hose patches, 4 hose pipes and nozzles, jack screw, hammer, wash pan, sprinkler, 40 feet 1 inch rubber hose, whiffletrees and chains, mat, 2 mattresses, 1 table, chandelier, 15 chairs, 1 stove and funnel, 2 horse blankets, clock, bench, vise, 1 siamese coupling, 1 reducing coupling.

NAIAD QUEEN STEAM FIRE ENGINE COMPANY, No. 3.

FIFTEEN MEMBERS

House on Congress street.

Foreman—G. W. Carter.

Clerk—A. W. Banks.

Ass't Foreman—R. G. Hooper.

Treasurer—A. W. Banks.

Engineer—W. H. B. Howard.

Fireman—Charles E. Ash.

Assistant Engineer—G. C. Perkins.

MEMBERS.

Name.	Age.	Occupation.	Residence.
A. P. Lewis	36	Hatter,	Carter street.
A. W. McKennon	22	Shoe cutter,	Kent "
W. H. B. Howard.....	46	Baker,	Olive "
G. C. Perkins.....	30	Engineer,	Tyng "
C. E. Ash.....	37	Baker,	Kent "
G. W. Carter	24	Clerk,	Papanti's court,
A. W. Banks	22	Shoe cutter,	Merrimac street.
J. W. Ramsdell	25	Teamster,	" "
R. H. Hooper	28	Painter,	Olive "
A. W. Warner	25	Hatter,	Olive "
J. A. Osborne.....	37	Engineer,	Ocean "
C. W. Noyes	29	Laborer,	Olive "
G. W. Cate.....	21	Grocer,	Carter "
W. B. Pike.....	34	Hatter,	Carter "
G. F. Cumford	28	Stock fitter,	Olive "

Property owned by the City in charge of this Company.

One steam fire engine, 26 feet suction hose, 1 two-wheeled hose carriage, 1 automatic relief valve and controlling nozzle, 800 feet 2½ inch leather hose, 50 feet 2½ rubber hose, one set whiffletrees, one spare pole, 2 horse blankets, 2 torches, 4 lanterns, 1 signal lantern, 2 spare link blocks, 1 siamese coupling, 1 bench with vice, files, etc., 1 frost pipe, 2 trumps, 1 Johnson pump 30 feet half-inch rubber pipe, 1 dust pan, 2 coal hods, 3 stoves with funnel, 2 clocks, window curtains and fixtures, 2 feed pipes, 2 brass hose pipes, 1 leather and 1 rubber discharge pipe, set nozzles, 1 axe, 1 bar, 3 water casks, 2 coal barrels, set spanners and belts, 1 jack screw, skids, buckets, hose bridge, drag rope, shovel, reducing coupling, hose ropes, patches, table, 12 chairs, 7 settees, 2 bunks with quilts, etc., etc.

TORRENT (HAND) FIRE ENGINE COMPANY, No. 7.

FORTY-FIVE MEMBERS.

House on Merrimac, between Forester and Ashland sts.

Foreman—F. B. Ives.

Clerk—A. Cheever.

First Ass't—E. E. Towne.

Steward—J. O. Jackman.

Second Ass't—G. A. Coffin.

Treasurer—Chas. H. Carr.

MEMBERS.

Name.	Age.	Occupation.	Residence.
F. B. Ives	27	Hatter,	Ashland street.
E. P. Towne.	22	"	" "
S. P. Sawyer.	30	Carpenter,	Merrimac "
A. E. Cheever	35	Moulder,	Carter "
C. H. Carr.	34	Carpenter,	Merrimac "
R. Mitchell.	27	"	Forrester "
T. W. Mitchell.	25	Shoemaker,	Jefferson "
W. G. Brown.	33	Carpenter,	" "
D. T. Rowe	35	Shoemaker,	No. Atkinson st.
E. P. Chase.	23	"	Ashland street.
W. Chase	25	"	" "
F. E. Currier.	24	Hatter,	" "
A. G. Currier	23	Mason,	Merrimac "
J. Coskery.	27	Shoemaker,	Forrester "
M. Coffill.	26	Hatter,	Jefferson "
G. Coffin.	26	Shoemaker,	" "
B. Davis.	26	Hatter,	Ashland "
Z. Durland	44	Carpenter,	Merrimac "
W. Fernald	25	Moulder,	Kent "
L. Hicken	35	Carpenter,	Merrimac "
J. Morse.	32	Hatter,	Ashland "
O. H. C. Junkins.	32	Machinist,	Oakland "
D. J. Lee.	23	Farmer,	Merrimac "
G. Strangman	27	Hatter,	" "
G. Whitmore.	24	Shoemaker,	" "
A. O. Pike.	23	"	" "
S. H. Goodwin.	22	Weaver,	Munroe "
C. E. Boyd.	23	"	" "
G. Niles	25	Hatter,	Federal "
C. E. Church.	25	Carpenter,	Merrimac "
E. C. Fowler	23	Clerk,	" "
W. G. Ives.	24	Hatter,	Ashland "
W. S. Somerby.	21	Clerk,	" "
F. Coffill.	22	Hatter,	Jefferson "
E. E. Carter	21	"	" "

Name.	Age.	Occupation.	Residence.
J. Hines.....	43	Shoemaker,	Ashland street.
H. McQuillen	24	Hatter,	Jefferson “
C. D. Pettigrew.....	30	“	Merrimac “
J. L. Lancey	37	Shoemaker,	“ “
G. A. Merrill	40	“	Lancey's court.
H. Merrill	22	Carpenter,	Merrimac street.
J. Lewis.....	22	Shoemaker,	Walnut “
G. Allen.....	39	Carpenter,	Jefferson “
K. Weatherby.....	42	“	Forrester “
F. Carson.....	24	Hatter,	Merrimac “

Property owned by the City in charge of this Company.

One hand engine, 1 hose carriage, 1000 feet $2\frac{1}{2}$ inch American jacket hose, 4 discharge pipes, 1 blunderbus lot spanners and belts, hose ropes and patches, 36 badges, wrench, oil feeder and cans, 2 nozzles, axe, 2 bars, torch, wheel-jack, Johnson pump, 3 lanterns. 6 bracket lamps, chandelier, tunnel, 6 settees, 27 chairs, broom, shovel, sprinkler, water pails, 2 stoves with funnel, coal hod, sink and pump, whiffletrees, etc.

NEPTUNE (HAND) FIRE ENGINE COMPANY, No. 8.

FORTY-FIVE MEMBERS.

House on Purchase, between Lunt and Madison streets.

Foreman—W. B. Porter.

Clerk—A. W. Porter.

First Ass't—J. C. Lang.

Steward—R. H. Knapp.

Second Ass't—D. Jackman.

Treasurer—H. H. Landford

MEMBERS.

Name	Age.	Occupation.	Residence.
W. B. Porter.....	42	Teamster,	Lunt street.
J. C. Lang	43	Shoemaker,	Marlborough st.
D. W. Jackman	22	Operative,	Purchase street.
A. W. Porter	43	Shoemaker,	Marlborough “
H. H. Landford.....	32	Clerk,	Purchase “
J. A. Eaton.....	24	Gunner,	Madison “
J. F. Bryant	24	Farmer,	Hancock “
R. H. Knapp.....	47	Gentleman,	Parsons “
D. W. Nutting	38	Shoemaker,	Water “
J. Burke	46	“	Ship “
C. H. Howard.....	24	Laborer,	Hancock “
F. C. L. Cook.....	41	Carpenter,	Lunt “
C. A. Caswell.....	27	Gunner,	Union “

Name.	Age	Occupation.	Residence.
H. C. Short.....	32	Laborer,	Water street.
C. M. Johnson ...	24	Operative,	Bromfield "
J. Black.....	22	Painter,	Salem "
L. S. Hilton	36	Laborer,	Union "
W. H. Perkins	39	Fish merchant,	" "
J. A. Ryan.....	32	Laborer,	Water "
C. W. Perry, jr.....	31	Blacksmith,	Congress "
L. M. Short	21	Farmer,	Union "
J. N. Howard.....	47	Shoemaker,	Marlborough "
S. H. Perkins.....	51	Clerk,	Union "
G. W. Stanwood.....	25	Operative,	Oak "
J. J. Wells.....	46	Shoemaker,	Union "
D. Burke	43	Heeler,	Charles "
B. C. Lane.....	29	Shoemaker,	Union "
R. E. Allen.....	34	Gentleman,	" "
Albert Hodgdon.....	34	Teamster,	Marlborough "
J. W. Burke	23	Shoemaker,	Ship "
T. Aubin, jr	38	Laborer,	Union "
W. G. Caswell	32	"	" "
F. E. Stevens.....	23	"	Bromfield "
D. H. Thurlow.....	24	"	Water "
J. Hoyt.....	53	Operative,	" "
C. W. Cook	23	Teamster,	Marlborough "
M. O. Comer	31	Shoemaker,	Madison "
G. W. Short	28	Laborer,	Union "
E. W. Chase.....	24	Operative,	Chase's court.
A. M. Noyes.....	43	Shoemaker,	Salem street.
W. H. Caswell	24	Comb maker,	Oak "
M. Eaton.....	22	Shoemaker,	Union "
D. B. Nutting.....	30	Laborer,	Madison "
G. J. Ross	37	Cigar maker,	Bromfield "
A. N. Eaton.....	21	Shoemaker,	Madison "

Property owned by the City in charge of this Company.

One hand engine, 26 feet suction, 1 two-wheeled hose carriage, 1000 feet American jacket hose, hose pipes, nozzles, Johnson pump, 2 lanterns, torch axe, bar, spanners and belts, drag and hose ropes, patches, oil can, wrenches, wheel jack, whiffletrees, 24 chairs, 8 hall chairs, 8 settees, 2 stoves, with funnel, clock, coal hod, duster, broom, hose trough, 2 force pumps, etc.

Property of the City in charge of the Board of Engineers.

Seven hats, seven rubber coats, seven fire trumpets, seven leather belts, seven breast badges.

In Engineers' room, Pleasant street.—One four-wheeled hose carriage, 4200 feet $2\frac{1}{2}$ inch leather hose, 150 feet $2\frac{1}{2}$ inch rubber hose, 4 lanterns, axe, crowbar, 2 monkey wrenches, iron sleeve for water pipe, lot old couplings, valves, springs, broom, shovel, duster, 2 stoves, window curtains and fixtures, 1 table, desk, settees, chairs, etc., etc.

In basement of Market House. One force pump, hose trough, rubber hose, 2 stoves, funnel, 3 benches, 2 kettles, blocks, ropes, and rings in hose tower.

In building on Munroe street.—Steamer Eon, 20 feet suction hose, hand engine, 18 feet suction hose, 2 two-wheel hose carriages.

In store room, City Hall.—Forty pounds waste, 15 pounds rotten stone, 3 gallons sperm oil, 4 gallons polishing oil, 4 brushes, 4 feather dusters, 5 gross matches, 5 water pails, lot packing, lot emery paper, 30 pounds soap.

I would recommend the dismantling of steamer Eon, the running work to be used in the construction of a supply wagon for the department.

In view of the immense saving of damage by water, by the use of the automatic relief valve and controlling nozzle, as attached to steamer No. 3, I would recommend the attachment of the same, at an early day, to steamers No. 1 and 2.

LOCATION OF RESERVOIRS, HYDRANTS,

AND OTHER AVAILABLE SUPPLIES OF WATER FOR FIRE PURPOSES

1. Water at the Gas House.
2. Reservoir, junction of Hancock and Marlborough streets.
3. Hydrant foot of Lunt street, on Purchase street.
4. Reservoir corner of Purchase and Bromfield streets.
5. Reservoir, junction of Bromfield and Prospect streets.
6. " corner of Hancock and Bromfield streets.
7. " at Victoria Mill.
8. " junction of Lime and Purchase streets.
9. " on High street, foot of Coffin's court.
10. " on Charles street.
11. " junction of Lime and Prospect streets.
12. Cistern on Smith's court

13. Reservoir at No. 2 engine house.
14. Hydrant, in Federal street, opposite Peabody Mill.
15. " junction of Federal and Beck streets.
16. Reservoir, " " Middle "
17. " " " Atwood "
18. " " " Prospect "
19. Hydrant, on High street, head of Federal.
20. Reservoir, junction of Essex and Fair streets.
21. " " Fruit and Prospect.
22. Hydrant on High street, head of Fruit street.
23. Reservoir at Peabody mill.
24. Reservoir in Prospect street, opposite No. 12.
25. Cistern at brick stable on Temple street.
26. City well, Market square.
27. Reservoir on State street, opposite Charter.
28. " " " Temple.
29. " " " Prospect.
30. Hydrant on State street, south of High street.
31. Hydrant on State street, opposite Victoria mill reservoir.
32. Reservoir on Pleasant street, at engine house.
33. " on Harris street, opposite Park.
34. " Brown's square.
35. Well on Brown's wharf, near Merrimac street.
36. Reservoir, junction of Green and Washington streets.
37. Frog pond.
38. Well at the landing foot of Market street.
39. Reservoir on Washington street, opposite Titcomb.
40. " junction of Washington and Market streets.
41. " at the head of Winter street.
42. Hydrant at E. R. R. Depot ; chuck at C. H. Danforth's store.
43. Flood gate north side of new bridge.
44. Flood gate at Pearson's wharf.
45. Reservoir, head of Pearson's wharf.
46. " junction of Boardman and Washington streets.
47. " on High street, opposite John H. Balch's.
48. Well, Williams' court.
49. Well, rear of brick store, corner Merrimac and Strong streets.
50. Well at Caldwell's distillery.
51. Creek at head of Caldwell's wharf.
52. Cistern, residence of Jacob Horton, High street.

53. Cistern at residence of John Gorwaiz, High street.
54. Reservoir junction of Congress and Buck streets.
55. " on High street opposite Johnson street.
56. Cistern at T. H. Cutter's, High street.
57. " at residence of Charles Peabody, Johnson street.
58. " William Ashby's, head of Kent street.
59. Reservoir at Ocean mill.
60. Reservoir, junction of Monroe and Dove streets.
61. Merrimac river.
62. Cistern, north-east corner of Arms factory.
63. Cistern at house corner of Broad and Merrimac streets.
64. Reservoir, junction Broad and Munroe streets.
65. Reservoir, junction of Toppan and High streets.
66. Reservoir, junction of California and Walnut streets.
67. Well at corner of Merrimac street and Merrimac court.
68. Well rear of Choate's planing mill, Merrimac street.
69. Reservoir corner Monroe and Oakland streets.
70. Cistern at residence of Mrs. Hale, High street.
71. " near barn of " "
72. Cistern at No. 234 High street.
73. Reservoir at the head of Ashland street.
74. Cistern at residence of Mrs. Josiah Little, High street.
75. Reservoir on High street, head of Woodland street.
76. " on High st., between house and shop of J. B. Lord.
77. Cistern at Savary's tan yard, Belleville.
78. Reservoir at No. 7 engine house.

HALE FUND.

For the information of the City Council and other persons interested I transmit a copy of the rules and regulations adopted by the Fire Department October 24th, 1846, relating to the care and custody of the Hale Relief Fund.

The Board of Engineers, as trustees, have deposited the donations, received from time to time, in the Institution for Savings in Newburyport and its vicinity, and the total amount, with the accumulated interest, now on hand, is \$2366.82.

In compliance with the conditions imposed by the regulations, aid is granted to firemen only, who are injured while in the discharge of

their duty. The fund has proved of great value in relieving the want and suffering of many members of the department in years past, and it now needs a more liberal endowment in order to increase its usefulness and extend its influence. Dr. Eben Hale of this city, in the fall of 1846 made the first contribution to this fund, which with its many accessions and accumulations has since been known as the "Hale Fund." A full and complete list of the donors up to this date, is as follows:—

October 24, 1846.	Received from Dr. Eben Hale.....	\$100.00
April 21, 1852.	" " Capt. Philip Johnson.....	50.00
June 7, 1852.	" " Newburyport Mutual Fire Ins. Co..	100.00
January 30, 1860.	" " Eastern Railroad Co.....	25.00
August 7, 1861.	" " Newburyport Mutual Fire Ins. Co..	200.00
June 3, 1863.	" " James and Sarah Caldwell.....	20.00
April 26, 1865.	" " Michael Titcomb.....	100.00
October 30, 1869.	" " Josiah L. and Joshua Hale	100.00
October 4, 1871.	" " Moses L. Hale.....	50.00
February 22, 1872.	" " Josiah L. and Joshua Hale	100.00
September 22, 1873.	" " Charles H. Coffin	50.00
October 8, 1874.	" " Charles Tyng	10.00
November 4, 1874.	" " A Friend	50.00
November 5, 1874.	" " Ocean Steam Mills Corporation....	50.00
July 12, 1875.	" " Thurston & Colman.....	50.00
August 2, 1875.	" " Joseph B. Morss	100.00
April 24, 1877.	" " David Hale	50.00
January 8, 1879.	" " Stephen Peabody.....	10.00
April 30, 1880.	" " Dr. Frank A. Hale	12.00
August 7, 1880.	" " Estate of the late John Osgood	50.00

I heartily commend the object for which this fund is provided, to the liberal minded and public spirited citizens of this community, and trust that this brief recital of facts will call their attention to the claims it has upon them for future donations and bequests.

His Honor the Mayor and the city council, the committee on fire department, the city marshal and members of the police force, will please accept my grateful acknowledgments for encouragement shown, and services rendered, during the past year. To my assistants on the board, my thanks are also due; and last, but not least, to the officers of the fire department, I return my thanks for the prompt and cheerful manner in which they have performed their duties.

Respectfully submitted,

JOHN S. FROST, CHIEF ENGINEER.

RULES AND REGULATIONS

RELATING TO

THE "HALE FUND,"

Adopted by the Fire Department of Newburyport, October 24, 1846.

The fire department of Newburyport, having been presented with one hundred dollars, by Dr. Eben Hale, to be used as a relief fund, agree that said fund, and all additions that may be made to it, shall be governed by the following articles of compact :

ARTICLE 1. This fund shall be called the "Hale fund."

ARTICLE 2. The same shall be under the direction of a board of trustees, consisting of the chief engineer and the engineers attached to the several engines and hook and ladder companies, and shall be invested as they may direct. This board shall continue as trustees so long, and no longer, as they remain the engineers of said companies ; when removed by the companies, and others chosen to fill their places, if approbated by the selectmen, they shall become members and compose the board of trustees as herein provided.

ARTICLE 3. A majority of the board of trustees shall constitute a quorum for doing business, and no money shall be drawn without the consent of a majority of the board. The chief engineer shall be *ex officio* chairman of the board.

ARTICLE 4. Should the present chartered fire department be given up by the town and any new mode substituted, the members of the department as now in use, shall meet, by order of the trustees, and by their votes provide for the distribution or safe keeping of whatever fund may then remain.

ARTICLE 5. When any member of the department is injured while in the discharge of his duty, in such a manner as to entitle him to relief, he shall make application to the board of trustees, stating the extent of his injuries, the company to which he belongs, and the time and place where the injury was received.

ARTICLE 6. When an application for relief has been made to the trustees, the chairman shall, within one week, call a meeting of the board, and, after an examination of all the circumstances connected with the application, shall, in their best judgment, award such a sum or sums as the case demands.

ARTICLE 7. It shall be the duty of the trustees to keep an accurate account of the state of the fund, and make a statement annually, in one of the papers of the town, naming the amount, if any, appropriated.

ARTICLE 8. The trustees shall have power to call a meeting of the department at any time when they choose to submit a case for their consideration rather than abide by their own judgment.

ARTICLE 9. The present articles of compact shall not be altered or amended unless at a meeting of the department called for that purpose.

ARTICLE 10. No meeting of the department shall be called by the trustees for any purpose except those provided for in articles fourth and eighth, unless petitioned for by five members of each company.

TRUSTEES OF THE HALE FUND,

DECEMBER 1, 1880.

JOHN S. FROST, (Chief Engineer)	<i>Chairman and Treasurer.</i>
GEORGE B. HICKEN, (First Assistant Engineer)	
SELWYN C. REED, (Second Assistant Engineer)	<i>Secretary.</i>
EBEN S. DOLE, (Third Assistant Engineer)	
JOHN H. CURRAN, (Fourth Assistant Engineer)	
ALPHEUS G. KNIGHT, (Fifth Assistant Engineer)	
WM. H. B. CURRIER, (Sixth Assistant Engineer)	

REPORTS
OF
CITY SOLICITOR,
AND
CITY MARSHAL.
1880.

REPORT OF THE CITY SOLICITOR.

CITY SOLICITOR'S OFFICE, }
December 1880.

*To His Honor the Mayor, and the City Council of the city of
Newburyport:*

In compliance with the ordinance I have the honor to submit the following report:

The duties of this office, which has been supposed by some to be a sinecure, have the past year been more diversified and onerous than ever before. Indeed, as the office becomes better known, its advantages are more appreciated and its services more frequently brought into requisition. The word "onerous" is used in no offensive sense, for only courtesy and kindness have been extended by all having occasion to seek its aid.

During the year advice has been sought by and given to the mayor, city treasurer, city marshal, committee on claims, committee on public property, committee on fuel, committee on water supply, water commissioners, overseers of the poor, board of health, sealer of weights and measures, and many others connected with the administration of city affairs. Many contracts have been written and more than the usual number of actions have been before the court.

Cambridge vs. Newburyport was an action brought in Middlesex county to recover expenses for support and removal of a pauper, and was settled by payment of the claim without costs.

Smith vs. Newburyport was an action of *Scire Facias* brought in Essex county, to charge the city as trustee of Mr. Joseph H. Currier. The action was dismissed by the court and judgement rendered for the city.

B. W. Cole vs. Newburyport, and C. W. Cole vs. Newburyport, were actions in tort, brought in Essex county, to recover damages. In the former case for damage to horse and wagon, and in the lat-

ter case for personal injuries. These are better known as the "sacred ox" cases. The superior court gave judgment in favor of the city on demurrer. An appeal was taken to the supreme judicial court which sustained the demurrer, and affirmed the judgment in favor of the city.

Newburyport vs. Worthington was an action brought in Essex county to recover from the town of Worthington expenses for supplies furnished an insane pauper. This action was brought under the law giving military settlements, stat. of 1878, chap. 190, sec. 1, clause 10. It was taken up to the supreme judicial court on an "agreed statement of facts," and has been heard by that court, but the decision has not yet been made.

Siter et al. vs. Newburyport is an action brought in Suffolk county, to recover payment for plans for an almshouse, said to have been furnished the city. It was entered at the October term and an answer has been filed.

This latter is the only unfinished case now in court to which the city is a party.

Respectfully submitted,

JOHN N. PIKE, City Solicitor.

REPORT OF THE CITY MARSHAL.

To His Honor the Mayor, and Board of Aldermen of the City of Newburyport

GENTLEMEN: The whole number of arrests during the year 1880, for offences committed within the city of Newburyport was 841, of which 468 were of foreign birth, 363 were born within the limits of the United States; 82 were females, and 102 were minors.

The arrests were for the following causes, viz:

Assault and battery	54
Assault on officers	3
Tramps	4
Felonious	1
Adultery	7
Rude and disorderly	22
Bastardy	5
Burglary	2

Breaking and entering.....	10
Common drunkard.....	3
Carrying concealed weapons.....	1
Drunkenness.....	552
Drunk, second offense.....	12
Disturbing the peace.....	35
Rape.....	1
Fornication.....	1
Defaulted on bail bond....	2
Receiving stolen property.....	1
Highway robbery.....	1
Insane.....	11
Escaped prisoners.....	2
Larceny.....	41
Stubborn children.....	7
Lewd and lascivious.....	6
Malicious mischief.....	10
Stealing rides.....	2
On suspicion.....	6
Truancy.....	5
Vagrancy.....	9
Violation of city ordinances.....	19
Embezzlement.....	1
Violation of liquor law.....	3
Cruelty to animals.....	2
Total.....	841

Disposed of as follows, namely :

Appealed.....	8
Bound over to Superior Court.....	17
Cases continued.....	14
Cases setteled without trial.....	25
Committed for non-payment of fine.....	97
Committed to State Reform School.....	4
Committed to Danvers Hospital.....	4
Discharged without ccplaint....	339
Discharged by court.....	46
Fined and paid.....	212
House of Correction.....	34
Newburyport workhouse.....	14
Ordered to pay cost.....	3
Placed on file.....	7
Put under bonds to keep the peace.....	4
Sent to jail.....	6
Turned over to other officers.....	7
Total.....	841

Miscellaneous :

Amount of property recovered.....	\$28,554.70
Assisted other officers.....	392
Buildings found open and secured.....	61
Cases of truancy investigated.....	62
Complaints investigated.....	1653
Defective places in streets reported.....	72
Dogs killed.....	2
Disturbances suppressed without arrest.....	336
Fire alarms given.....	8
Fires extinguished without alarm.....	2
Injured persons assisted.....	15
Intoxicated persons helped home.....	207
Lights furnished for dangerous places.....	48
Lost children restored to parents.....	41
Nuisances investigated.....	114
Persons provided with lodgings.....	766
Search warrants for liquor served	8
Street obstructions removed.....	283
Ordered snow removed.....	145

Respectfully submitted,

CHARLES H. DEROCHEMONT, City Marshal.

City of Newburyport, Dec. 31, 1880.

REPORTS
OF THE
CITY CLERK,
BOARD OF ASSESSORS,
INSPECTOR OF MILK
AND
SEALER OF WEIGHTS AND MEASURES.
1880.

REPORT OF THE CITY CLERK.

CITY CLERK'S OFFICE,
Newburyport, Feb. 10, 1881. }

To the City Council:

GENTLEMEN :—I have the honor to submit the following annual report of births, marriages, and deaths in the city of Newburyport for the year ending December 31, 1880.

BIRTHS.

The number of children born alive during the year 1880, was 334, an increase of 69 over the year 1879, and a greater number than has been returned since 1875, as may be seen by reference to the following table :

Births in the year 1875.....	350	Births in the year 1878.....	284
“ “ 1876.....	302	“ “ 1879	265
“ “ 1877	299	“ “ 1880.....	334

Perhaps the increase may be attributed in part to the admirable working of the law of 1880, requiring physicians and midwives to return certain facts in relation to births monthly to the city clerk. Even the incomplete return of the past year has greatly facilitated the registration, and secured some that would otherwise have been lost.

Of the births 174 were males, and 160 females ; there were three pair of twins ; in two instances both were males, and in one instance both were females ; seven are returned as illegitimate, and two were colored.

Births by months and quarters can be seen by the following tables :

1st quarter.	2d quarter.	3d quarter.	4th quarter.
January....30	April....19	July....27	October.....27
February...30	May... 27	August 13	November ...42
March . . .35	June ....23	Sept....27	December....34
95	69	67	103

The nativities of the parents of the children born are as follows :

	Father.	Mother.
Born in the United States.....	190	205
“ Ireland	93	85
“ Provinces and Canada	23	24
“ England	16	13
“ Scotland.....	4	4
“ other foreign countries.....	3	1
“ at sea.....	1	0
“ unknown.....	4	2
Total.....	334	334

MARRIAGES.

The number of intentions of marriage recorded and issued for 1880 was 145; 34 more than the preceding year, and a greater number than any year since 1875, which exceeded the present year by 14. Of the 145 issued all but three have been returned for record, the marriages having been solemnized here or elsewhere. The number of marriages recorded during the year was 154, nine more than certificates issued. The number of marriages solemnized in this city was 140, and 14 additional marriages were returned here for record one or both of the contracting parties having a residence in this city.

The marriages in each month and quarter as follows :

1st quarter.	2d quarter.	3d quarter.	4th quarter
January....13	April....10	July....15	October....20
February.. 8	May..... 7	August..10	November..16
March.....11	June. ..18	Sept'r..16	December..10
32	35	41	46

Marriages were solemnized by the following named clergymen :

Congregationalist:—

S. J. Spalding	27
D. T. Fiske.....	10
James H. Ross.....	3
Charles P. Mills.....	2

Methodist:—

W. M. Ayres.....	10
W. Silverthorne.....	10
W. J. Hambleton.....	1

Catholic:—

A. J. Teeling.....	29
J. T. Gormley.....	4

Episcopal:—

Edward L. Drown.....	10
Samuel M. Emery.....	4
Christian:—Daniel P. Pike.....	14
Unitarian:—G. L. Stowell.....	4
Baptist:—John T. Beekley.....	5
Justice of Peace:—Edward F. Bartlett.....	1
By non-resident clergymen.....	17

NATIVITY OF BRIDEGROOMS AND BRIDES:

Bridegrooms.		Brides.	
Born in the United States....	120	Born in the United State....	122
“ Ireland.....	15	“ Ireland.....	16
“ Canada and provinces	10	“ Canada and provinces	11
“ England.....	7	“ England.....	3
“ Scotland.....	1	“ Scotland.....	2
“ Denmark.....	1		
	<u>154</u>		<u>154</u>

In the marriages recorded for the year, it was the first marriage with 125 grooms; 28 a second marriage, and 1 the third marriage. Of the brides, the first marriage of 138, the second of 15, and the third of one. In 120 cases the first marriage of groom and bride; in ten cases the second marriage of both. But five brides were under the age of 18 years, one being 15, three 16, and one 17 years of age. The oldest couple married were 65 and 62 years of age. it being the second marriage of each; the oldest groom married at 74 years of age—his third marriage, to a blooming maiden of 31 summers.

DEATHS.

The deaths in Newburyport for 1880 were 283, not counting four still-births. The number of deaths entered on the books of the city for the year was 362, of which 74 occurred in other places and were brought to this city for interment, in most cases being natives of this city, or by former residence owning lots in the cemeteries or public grounds of the city.

The actual number of deaths in the city was 15 less than for the year 1879. Males, 142; females, 141.

Deaths by months and quarters as follows:

1st quarter.	2d quarter.	3d quarter.	4th quarter.
January....27	April....23	July... 26	October ...22
February....23	May....17	August .25	November..21
March .....28	June... 23	Sept'r . 26	December.. 22
<u>78</u>	<u>63</u>	<u>77</u>	<u>65</u>

Two hundred and eleven were natives of Massachusetts, thirty-two of other states, forty-four of foreign birth, and one unknown.

The united ages of the deceased in the city during the year was 10,919 years which divided by 283 gives the average age for this city of 38.58 years.

For other information on this subject, reference may be had to the tables prepared by the board of health and city physician.

Respectfully submitted,

GEORGE H. STEVENS, City Clerk.

REPORT OF THE BOARD OF ASSESSORS.

ASSESSORS' OFFICE, }
CITY HALL, Dec., 1880. }

To the City Council of the City of Newburyport:

GENTLEMEN:—The board of assessors herewith submit a few facts relating to the taxation of real and personal property in this city for the past financial year; the estimated value of property, taxable and non-taxable; the number of inhabitants as returned by the enumerators of the national census for the year 1880, and other items that may prove of interest to the public.

Assessed value of property for taxable purposes.....\$7,466,677 50

Real estate.....\$4,815,800 00

Personal property as follows:

Shipping \$471,700 00

Resident bank shares.... 674,677 50

Other personal property..1,504,500 00 \$2,650,877 50

\$7,466,677 50

Rate of taxation \$15.60 on \$100). Poll tax \$2.00. Single polls, 2153.

Tax on \$7,466 677.50, is\$116,480 17

Total polls assessed 3384 6,768 00

Whole amount raised.... \$123,248 17

For the following purposes:

Appropriated for city expenses.....	\$107,200 00
City's proportion of state tax....	6,555 00
“ “ county tax.....	7,135 54
Overlay, or surplus from taxes.....	2,357 63
	<u>\$123,248 17</u>

Population, 1880, June census.	13,570
Number of dwelling houses, May 1st.....	2080
“ horses.....	570
“ cows.....	337
“ sheep.....	10
“ oxen.....	12

Assessors' valuation of property exempt from taxation:

Religious societies, real estate.....	\$201,500 00	
Invested fund.....	47,600 00	\$249,100 00

Benevolent and charitable institutions:

Real estate.....	\$ 6,000 00	
Invested funds.....	133,600 00	\$139,600 00

Literary institutions:

Putnam Free School, real estate.....	\$29,000 00	
Invested funds.....	45,500 00	\$ 74,500 00

Free Public Library:

Real estate.....	\$14,000 00	
Invested funds.....	26,000 00	\$ 40,000 00
		<u>\$503,200 00</u>

Respectfully submitted,

C. J. BROCKWAY,	} ASSESSORS.
C. C. DONNELL,	
G. W. JACKMAN, JR.	

REPORT OF THE INSPECTOR OF MILK.

To the City Council of the City of Newburyport:

GENTLEMEN :—The inspector of milk reports the following as his work for the year ending January, 1881.

The number of persons licensed to sell milk from wagons and vehicles is fifty-eight.

Twenty-five reside in Newburyport, selling daily 108 cans of ten quarts each. Twenty-three belong in Newbury, selling 218 cans of ten quarts each daily. Seven belong in West Newbury, delivering eighty-two cans. Two come in from Salisbury with nine cans daily, and one from Hampton Falls with 15 cans ; a total of 1080 gallons distributed daily in this city.

The largest number of cans brought in by any one dealer is twenty-seven cans.

These men are producers, and nearly all own their milk farms and are above suspicion of bringing adulterated milk to market. I think no city of the commonwealth is supplied with better and purer milk than Newburyport. By numerous tests made by me I have found the milk unusually good and have failed to find any that would warrant suspicion of adulteration with one exception, and this was milk furnished by a person who refused to state where the milk came from. consequently I could not investigate the case.

Besides the licensed dealers mentioned there are forty-eight registered dealers who sell from stores or dwellings. Those selling from stores are mainly supplied by the owners of milk routes, while those selling from dwellings have usually only a portion of the product of one cow, which they own and keep for their own convenience and profit, to dispose of.

I have no hesitation in saying the people of Newburyport can, as a rule, rely on the quality of the milk sold in this city.

C. R. SARGENT, Inspector of Milk.

Newburyport January, 1, 1881.

REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

NEWBURYPORT, January 1, 1881.

*To His Honor the Mayor and the City Council of the City of
Newburyport:*

GENTLEMEN :—The following report of my work for the year ending January, 1, 1881, is respectfully submitted :

There are eight coal and hay scales located in this city all in good working order. Three of these required adjusting and were put in order by me the past year.

There are four dormant scales, two of which required adjusting before they could be sealed. Nineteen platform scales have been sealed, six of which required adjusting and overhauling before sealing. Eleven balances and beams, four of which were incorrect, were sealed. Nine counter scales were sealed, four needing adjusting.

Of steel-yards seven have been sealed, two adjusted, and several condemned. Eighty-nine weights have been sealed, eighteen requiring adjusting. Of wine or wet measures, 118 have been sealed, eighteen adjusted, and a large number condemned. Dry measures, twenty-two sealed, four adjusted.

The people have been very negligent in the matter of dry measures, as you will see by the above.

Charcoal baskets ; three have been sealed, and a number inspected and found correct having been previously sealed.

It is not for me in this report to advise by what means the people shall be made or induced to have weights and measures sealed, but it is evident from the above that many scales, measures, etc , must be constantly used that have never been sealed, and I can but hope our legislature will pass some wise and effective act to cover the case.

C. R. SARGENT, Sealer of Weights and Measures.

REPORTS

OF THE

COMMISSIONERS

ON

ATKINSON COMMON,

SINKING FUND,

AND

HORTON FUND.

REPORT OF THE COMMISSIONERS OF ATKINSON COMMON.

*To His Honor the Mayor and the City Council of the City of
Newburyport, Mass.:*

GENTLEMEN :—The commissioners of Atkinson common would respectfully report that their labors have not been arduous or exhaustive during the past year, from the fact that they have had no funds at their disposal to expend. A reasonable sum of money could have been used to advantage early in the spring, for the planting of trees and the general improvement of the grounds ; but not having an income sufficient to warrant the expenditure, the commissioners have not felt authorized to undertake the work. They would not be unmindful or ungrateful to the city, however, for the twenty-six maple trees that were planted late in the spring (toward the hot days of an early summer) although it is feared they may never put forth their buds to gladden the eyes of the frequenters of the broad avenues of the common. Fully conscious of the depleted condition of the city treasury, the commissioners, by great personal effort and the use of extraordinary influences to restrain the cattle in the neighboring pastures from testing the strength of the frail and unsubstantial fencing that surrounds the outermost bounds of the common, were able to secure a light crop of hay valued at twenty-five dollars, which sum when collected was ordered to be placed in the hands of the city treasurer.

The commissioners would also report that they have received for rent of land opposite the common, (ten dollars less, expense repairing fence, one dollar and ten cents) the net sum of eight and 90-100 dollars, and also a balance of one dollar and forty-eight cents due for the year 1876, thus making the total receipts \$35.38

from all sources. The expenditures have been sixteen dollars for the maple trees before referred to.

The following financial statement shows a balance of indebtedness due the city of Newburyport of \$22.82.

Amount due from commissioners, Dec. 20, 1879	\$42 20	
Due for maple trees as per contract.....	16 00	
		58 20
Balance received for rent of land Dec. 31, 1879.....	\$ 1 48	
“ “ “ Dec. 17, 1880.....	8 90	
Received for hay sold.....	25 00	35 88
Due city of Newburyport, Dec. 18, 1880.....	\$22 82	

All of which is respectfully submitted,

JOHN J. CURRIER,	} COMMISSIONERS.
WILLIAM A. DAVIS,	
WILLIAM H. SWASEY,	
BENJAMIN HALE,	
JOHN W. S. COLBY.	

Dated at Newburyport, Dec. 18, 1880.

REPORT IN RELATION TO THE HORTON FUND.

TREASURER'S OFFICE }
December 18, 1880. }

To His Honor the Mayor and the City Council:

GENTLEMEN :—The sinking fund commissioners as trustees of the Horton fund herewith respectfully submit their report of the condition of the fund at this date.

Amount received from the estate of Rev. William Horton, D. D., June 22d, 1880.....	\$19,589 22	
Interest received on city of Worcester bonds to Oct. 1, 1880..	\$67 50	
Interest received on savings bank deposit	6 94	
		\$74 44

Less amount paid for accrued interest on city of Worcester bonds at date of purchase.....	39 55	34 89
		\$19,624 11

This fund is now invested as follows :

\$15,000 city of Gloucester notes 4 1-2 per cent interest ..	\$15,600 00
3,000 Worcester registered bonds 4 1-2 per cent interest....	3,255 00
Deposit in Institution for Savings.....	769 11
	<u>\$19,624 11</u>

Respectfully,

GEO. W. PIPER, Treasurer.

REPORT OF THE SINKING FUND COMMISSIONERS.

TREASURER'S OFFICE, }
December 18, 1880. }

To the Committee on Finance:

GENTLEMEN :—I herewith submit a report of the condition of the sinking fund at this date, it being the close of the financial year :

Total funds December 20, 1879.....	\$32,228 80
City appropriation for 1880.....	3,000 00
Excess of income over expenditures for the financial year ending this date	3,309 89
Interest on investments.....	1,812 34
	<u>\$40,351 03</u>

Paid to city of Newburyport to meet notes maturing during the year.....	7,000 00
---	----------

Amount of fund at this date\$33,351 03

Invested as follows, viz :

\$20,000 Newburyport 6s.....	\$19,501 26
\$ 7,000 " 5s.....	6,333 88
City of Newburyport note, 6 per cent.....	1,031 00
Cash on hand.....	6,484 89
	<u>\$33,351 03</u>

Respectfully submitted,

GEORGE W. PIPER, Treasurer.

REPORTS
OF
COMMITTEES ON TRUST FUNDS,
FIRE DEPARTMENT,
AND
BRIDGES AND CULVERTS.
1880.

REPORT OF THE TREASURER OF THE FOLLANSBEE FUND.

*To the Honorable Mayor and Board of Aldermen of the City
of Newburyport:*

GENTLEMEN :—In compliance with the rules and regulations in force for the care and distribution of the income derived from the Follansbee fund, I herewith present the seventh annual report, showing the investment of the fund and the distribution of the income from the same for the year 1880. The fund is invested as follows :

\$3000 City railroad bonds at 7 per cent.....	\$2,850 00
Deposited in Five Cents Savings Bank, Newburyport.....	120 00
“ Institution for Savings, Newburyport	30 00
	\$3,000 00

Income account as follows :

Unexpended balance from 1879.....	\$ 2 15
Coupons due March 2, 1880.....	105 00
“ September 1, 1880.....	105 00 \$212 15

Paid out on orders issued by the aldermen of the several wards and approved by the mayor :

March 17, 1880, N. Varina & Son.....	\$34 05
March 18, 1880, Amos Coffin.....	72 02
December 11, 1880, Amos Coffin.....	93 13
December 16, 1880, N. Varina & Co.	12 95 \$212 15

The distribution of fuel to the worthy poor has been paid for during the year as follows :

Distributed in ward one	\$56 00
“ “ two	26 50
“ “ three	10 85
“ “ four	51 35
“ “ five	39 27
“ “ six	28 18 \$212 15

Coal, 47,000 pounds ; kindlings, 28 bushels ; pine wood, 3 3-4 cords ; hard wood, 4 1-5 cords.

The number of orders given out as above accounted for is fifty, varying in amount from \$6.50 the largest to \$1.60 the smallest.

Thirty-seven different families or individuals have thus been assisted by this fund doubtless relieving the poor department to the extent of the amount distributed, and carrying comfort and cheer to many a worthy household. Of this number 27 were assisted but once ; 8 twice ; 1 three times, and 1 four times. Thirteen orders amounting to \$53.02 were drawn prior to Jan. 1, 1880 ; at the present time, and for the first time since the existence of the fund, there are no outstanding orders against it. This is a gratifying state of things, evidencing, surely, an improved condition of society.

GEORGE H. STEVENS. Treasurer.

Newburyport, Dec. 20, 1880.

REPORT OF THE COMMITTEE ON DEXTER AND ATWOOD FUNDS.

To the City Council of the City of Newburyport:

GENTLEMEN :—In conformity to the requirements of the amendment to the city charter, adopted June 29, 1863, the undersigned beg leave to submit the following report in relation to the expenses of the poor department, and the distribution of the income derived from the Dexter and Atwood funds during the financial year ending December 18, 1880.

The amount paid to the overseers of the poor from the Dexter fund, during the last twelve months, was \$99.08. Of this sum they have distributed \$33.02 in wards one and two, among 24 families, in sums varying from 50 cents to \$3.00 to each family. In wards three and four they have distributed \$33.02 among 16 families, in sums varying from \$1.00 to \$4.00 to each family, and in wards five and six they have distributed \$33.04 among 17 families, in sums varying from \$1 to \$5 to each family.

The amount paid to the overseers of the poor, as income from the Atwood fund the past year, was \$282.50. One third of this sum (94.16) was placed in the hands of Mr. Francis W. Putnam, overseer of wards one and two, who has distributed \$43.50 among 25 fam-

ilies in sums varying from 50 cents to \$4.25 to each family, leaving in his hands unexpended at this date, (December 18, 1880,) \$50.66.

One third of this income was placed in the hands of Mr.

Charles Noyes, overseer of wards three and four amounting to... \$94 16

The balance in his hands December 20, 1879, was 76 29

Amount collected from city of Haverhill..... 4 75

Total.....\$175 20

Of this amount \$83.50 has been distributed among 31 families in wards three and four, in sums varying from 50 cents to \$4.75 cents to each family, leaving a balance of \$91.75 in his hands unexpended.

One third of the income from the Atwood fund was placed in the hands of Mr. Jonathan Keniston, overseer of wards five and six amounting to

\$94 18

The balance in his hands December 20, 1879, was..... 4 80

Amount received from Mr. Charles Noyes.... 10 00

Total.....\$108 98

Ninety-nine dollars of this sum has been distributed among 40 families, in sums varying from \$1 to \$5 to each family, leaving a balance in his hands, unexpended, of \$9.98.

The appropriation made by the city council for the support

of the poor for the year ending December 18, 1880 was..\$12,000 00

Received from the state, and other cities and towns..... 2,986 31

Received from all other sources..... 286 10

\$15,272 41

There has been expended :

For support of the poor in the almshouse.....\$4,825 20

Salaries..... 1,909 20

Insane..... 2,280 65

Criminals.... 134 42

Support of the poor in other cities and towns... 985 66

Aid to persons not inmates of alms house... 6,184 76

\$16,319 89

The balance of \$1047.48, overdrawn, has been transferred from incidentals to the credit of the poor department in order to close the account.

It will be noticed that a large proportion of this expenditure, \$6,184.76, has been occasioned by the relief granted to persons residing outside of the almshouse. During the year, the efforts of the overseers of the poor, with the assistance of their active and

competent clerk, have resulted in a saving of \$1,416.71 over the amount expended for the same purpose in 1879. There is room, however for a still larger reduction in the supplies furnished to this class of applicants, and the expenses of the department, in the opinion of the undersigned, cannot be reduced to its minimum until some plan is devised whereby the tendency to extend aid in this questionable manner can be effectually checked. The cost of maintaining the poor in the almshouse, and the amount paid for the support of the insane and criminals elsewhere, cannot, under existing circumstances be materially diminished. With a new and spacious building, specially designed for the purpose, better results may be attained. The present crowded condition of the almshouse, containing 63 inmates when at the utmost it can accomodate only 70, should ensure the erection of the proposed new edifice without longer delay.

In addition to the cash and groceries supplied the poor of the city in accordance with the foregoing statement, there has been delivered through the year, 30 cords of hard wood, 61 cords of pine wood, and 274 tons of coal, which is 37 3-4 cords of wood and 133 1-2 tons of coal less than the amount distributed in 1879.

The total cost of the poor department to the tax payers of the city of Newburyport (exclusive of fuel) has been reduced \$1846.01 since December 20, 1879, as will appear from the following recapitulation :

Appropriation in 1879.....	\$13,000 00	
Transferred from Incidentals.....	1,893 49	\$14,893 49
Appropriation in 1880.....	\$12,000 00	
Transferred from Incidentals	1,047 48	\$13,047 48

In closing this report, the undersigned desire to heartily commend the overseers of the poor and their efficient clerk for the earnest efforts made to lighten the burdens of this department, and at the same time to faithfully provide for the needy and deserving poor of the city.

All of which is respectfully submitted,

JOHN J. CURRIER, Mayor.

WM. A. DAVIS, President of Common Council.

GEORGE W. PIPER, City Treasurer.

REPORT OF THE COMMITTEE ON BROMFIELD FUND.

NEWBURYPORT, December 6, 1880.

To his Honor the Mayor and Board of Aldermen:

The committee on Bromfield fund would respectfully submit the following report, viz :

The income from the investment, in the Massachusetts Hospital Life Insurance Co., payable on the first day of the present year was \$401.01 ; of which \$211.85 has been expended for trees, setting out and trimming ; and \$190.40 for side-walks ; total, \$402.25 ; overdrawn, \$1.25.

For the committee,

JOHN P. EVANS, Chairman.

REPORT OF THE COMMITTEE ON SAWYER FUND.

To His Honor the Mayor and Board of Aldermen:

GENTLEMEN :—The committee on this fund would respectfully report that the bequest under the will of the late Matthias Plant Sawyer of Boston, amounting to the sum of five thousand dollars held in trust for the benefit of the public library of the city of Newburyport, is now invested in a promissory note of the city of Newburyport dated April 18, 1879. with interest at four and one-half per cent per annum ; said note is now in the custody of the city clerk for safe keeping.

During the past financial year ending December 20, 1880, the interest on said fund has amounted to the sum of \$225, which amount has been paid to the finance committee of the public library.

For the committee,

JOHN WOODWELL, Chairman.

Newburyport. December 27, 1880.

REPORT OF THE COMMITTEE ON BROWN FUND.

To His Honor the Mayor and Gentlemen of the City Council:

GENTLEMEN:—In compliance with the rules and regulations in relation to trust funds under control of the city council, the committee on the Brown fund would respectfully report that the fund donated for the purpose of maintaining a grammar school in the city of Newburyport, amounts to fifteen thousand (15,000) dollars, and is now invested in a promissory note of the city of Newburyport, dated April 18, 1879, and bearing interest at rate of 4 1-2 per cent per annum; said note is now in the hands of the city clerk for safe keeping. The interest for the past financial year ending December 18, 1880, amounted to \$675.00 which sum has been credited to the account of the school department.

For the committee,

JOHN WOODWELL, Chairman.

Newburyport, December 27, 1880.

REPORT OF THE COMMITTEE ON PUTNAM FUND.

To His Honor the Mayor and Board of Aldermen:

GENTLEMEN:—The committee on Putnam fund to whom was referred the statement of investments, submitted to this board by the treasurer of the board of trustees of the Putnam Free School, would respectfully report that they find the fund, on the first day of May, 1880, amounting to \$50,000, invested as follows:

In loans secured by first mortgage	\$9,148 77
Bank stock	7,661 00
B. & A., Newburyport City, and other railroad bonds	18,500 00
P. S. & P. Railroad and Newburyport Gas Co. stock	3,040 00
Institution for Savings in Newburyport	4,489 54
Real estate, school buildings, etc	7,160 69
	\$50,000 00

They would further report that the income from said fund the past year, has been expended in payment of salaries for school

teachers, and other incidental expenses necessary to carry out the will of the donor.

Respectfully submitted,

W. H. NOYES, Chairman.

Newburyport, December 6, 1880.

REPORT OF THE COMMITTEE ON ATKINSON FUND.

NEWBURYPORT, December 20, 1880.

To His Honor the Mayor and Board of Aldermen:

GENTLEMEN:—The committee on Atkinson fund would respectfully report that they find the fund amounting to \$2,493.37, is invested as follows:

20 shares Merchants' National Bank.....	\$ 400 00
7 shares Ocean National Bank.....	350 00
Deposit in Institution for Savings.....	1,143 37
10 acres salt marsh land....	200 00
3¾ rights in common pasture	400 00
	<u>\$2,493 37</u>

The income from this fund has been used for the support of an evening school in the Forrester street school-house in ward six. The school was continued for thirty-nine evenings under able and experienced teachers.

The following is a statement of income and expenditures from the last annual report of the treasurer made up to April 1, 1880:

INCOME ACCOUNT.

Sale of salt grass.....	\$14 00
Rebate of bank tax.....	9 50
Cash for use of common pasture rights.....	30 00
Dividends on bank stock.....	17 50
Amount withdrawn from savings bank	15 26
	<u>\$86 26</u>

EXPENDITURES.

Salaries paid two female teachers.....	\$81 25
Janitor's services.....	3 90
Incidental expenses.....	1 11
	<u>\$86 26</u>

Respectfully submitted,

W. H. NOYES, Chairman.

REPORT OF THE COMMITTEE ON FIRE DEPARTMENT.

NEWBURYPORT, December 27, 1880.

Gentlemen of the City Council:

The committee on fire department would respectfully submit the following report of their action for the financial year ending December 18, 1880.

Appropriation	\$6,500 00
Income	20 00
Overdrawn.	718 01
Total	\$7,238 01
Expenditures.....	\$7,238 01

In making the above report the committee would call your attention to the fact that the amount overdrawn was caused by extra expense in purchase of new hose carriage (\$600) and relief valve (\$100) which covers the amount overdrawn.

The committee are pleased to report the department in good condition, the apparatus in good order, and in charge of reliable and efficient firemen, who are at all times ready and willing to answer an alarm and to protect the property of our citizens from the destroying flames. Let us therefore as public officers or private citizens give them such aid and encouragement as will show them that their labors are appreciated, and encourage them to renewed vigilance and activity.

During the year engines No. 7 and 8, and the hook-and-ladder carriage, have been put in thorough repair and painted, and the hose carriage formerly in charge of No. 2 company placed in the house on Pleasant street in charge of a volunteer company, which will add much to the efficiency of the department.

In closing their labors for the year the committee feel that they have acted for the best interest of the department and city, and hope that their course will meet the approval of the city council and citizens.

For the committee,

J. OTIS WINKLEY, Chairman.

REPORT OF THE COMMITTEE ON BRIDGES AND CULVERTS.

NEWBURYPORT, December 27, 1880.

Gentlemen of the City Council:

The committee on bridges and culverts would beg leave to make the following condensed report, viz :

The culverts have been extended into the dock at the foot of Green street, and a plank culvert constructed opposite the foot of Olive street ; other expenses in that direction have been light.

The pier between the Newburyport bridge and the railroad bridge has been repaired at considerable expense, and the iron portion of the bridge painted two coats. The committee would recommend early attention to the condition of the first span of the bridge, as it is in their opinion getting rather unsafe.

The draw tender's duties the past year have been more arduous than during any preceding year, the draw having been opened rising 1500 times.

The Essex Merrimac bridge will in the opinion of your committee need a thorough replanking on the suspended portion of the same, and with a view to such a necessity your committee contracted for pine plank in sufficient quantity to repair the same, to be delivered when required at a price advantageous to the city. Owing to the low state of water at the saw-mills none of the plank have been delivered, but will probably be forthcoming when demanded by the succeeding committee.

Respectfully submitted,

JOHN P. EVANS, Chairman.

ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

CITY OF NEWBURYPORT,

FOR THE YEAR ENDING DEC. 18, 1880.

INCLUDING

REPORTS OF THE COMMITTEE ON FINANCE, CITY AUDITOR, CITY
TREASURER AND COLLECTOR; ALSO, A STATEMENT OF THE
CITY DEBT AND A SCHEDULE OF CITY PROPERTY.

REPORT OF COMMITTEE ON FINANCE.

NEWBURYPORT, December 27, 1880.

To the City Council of the City of Newburyport:

GENTLEMEN :—The joint standing committee on finance respectfully submit the accompanying statements and reports of the city treasurer and the city auditor for the financial year ending December 18, 1880. In compliance with the provisions of section 4 of the ordinance establishing the office of city auditor, the books and accounts of the city treasurer have been examined under the direction of this committee and found to be correct and sustained by proper vouchers.

JOHN J. CURRIER,	}	FINANCE COMMITTEE.
WILLIAM E. McQUILLEN,		
NATHANIEL GREELEY,		
W. C. PLUMMER,		
H. B. LITTLE.		

REPORT OF THE CITY AUDITOR.

To the Committee on Finance:

GENTLEMEN :—In compliance with the ordinance establishing the office of city auditor, I herewith submit to your honorable board my report for the year ending ending December 18, 1880.

I have examined the accounts of the city treasurer for the time as above stated, and find them correctly cast and vouched, the orders drawn by his honor the mayor paid, as also all amounts passed by the committee on accounts and charged to the several accounts as presented by the city treasurer in his statements, presented to you, showing the total expenses of the year to be \$142,606.89.

The city debt on December 20, 1879, was.....	\$390 075 34
“ “ “ 18, 1880 is.....	381,953 11

Reduction of the City Debt.....	\$ 8,122 23
---------------------------------	-------------

The amount of taxes committed to treasurer was.....	\$123,570 49
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Amount collected to date.....	\$98,669 72
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“ of abatements.....	1,525 08
----------------------	----------

“ uncollected	23,375 69	\$123,570 49
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Total amount of uncollected taxes for the year 1877...\$	25 40
--	-------

For the year 1878.....	201 00
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“ 1879.....	6,897 70
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“ 1880.....	23,375 69
-------------	-----------

Total	\$30,499 79
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The amount of cash balance in the hands of the treasurer December 20, 1879, was \$4,191.22; the amount in his hands December 18, 1880, as per his accounts is \$4,967.92; which I find is correct by the statements of the several banks where deposited.

The value of the city property was estimated in 1879 as follows :

Real estate.....	\$67,000 00
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School-houses	101,500 00
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Engine houses.....	13,100 00
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Personal property.....	145,900 00	\$327,500 00
------------------------	------------	--------------

I would recommend that a committee be appointed by the incoming administration to ascertain if any reduction is necessary in the estimated value of the city property.

SINKING FUND.

Total on hand December 20, 1879.....	\$32,228 80	
City appropriation.....	3,000 00	
Excess of income over expenditures for the financial year ending December 18, 1880.....	3,309 89	
Interest on investments.....	1,812 34	
	<u>\$40,351 03</u>	
City of Newburyport, to pay notes maturing during the year	7,000 00	
	<u>\$33,351 03</u>	

Invested as follows :

20,000 Newburyport 6s.....	\$19,501 26	
4,000 Newburyport 5s.....	6,333 88	
City of Newburyport, note 6 per cent.....	1,031 00	
Cash on hand.....	6,484 89	\$33,351 03

HORTON FUND.

Total amount December 18, 1880.....	\$18,762 17
-------------------------------------	-------------

Invested as follows :

City of Gloucester 4½ per cent bonds due Ju- ly, 1890	\$15,000 00	
City of Worcester 4½ per cent bonds, due April 1, 1905.....	3,000 00	
On deposit in Institution for savings.....	762 17	\$18,762 17

I find the city treasurer will present the amount of the appropriation for the year, as disposed of by the committee on accounts, as also by the mayor's orders, and that the other funds belonging to the city are reported upon by committees of the city council ; desiring fully to comply with the ordinance I submit my report.

E. BURRILL, Auditor.

CONDENSED STATEMENT OF THE

for the year end-

Dr. CITY OF NEWBURYPORT in account current

To amount paid mayor's orders and charged as follows:

Poor department.....	\$16,319 89
School ".....	24,590 47
Fine ".....	7,238 01
Highway ".....	3,516 59
Incidentals.....	5,092 51
Public Property.....	8,457 26
Day and night police.....	8,250 80
Lighting streets and public buildings.....	5,733 11
Interest.....	29,209 81
Public library.....	1,482 28
Sidewalks and edgestones.....	1,820 44
Newburyport bridge.....	1,169 14
Essex Merrimac bridge.....	407 96
Culverts.....	475 69
Notes Payable.....	101,980 18
State of Massachusetts, state aid and armories.....	4,419 00
" " military aid, law of 1879.....	1,398 00
Bromfield fund.....	402 25
Liquor licenses, 25 per cent of receipts to state.....	1,950 00
Sinking fund commissioners.....	6,309 89
Fuel.....	3,900 37
State tax.....	6,555 00
County tax.....	7,135 54
Stone paving.....	2,148 50
Water Works.....	1,150 75
Widening Merrimac street.....	406 75
Salaries.....	4,027 16
Commissioners of Atkinson common.....	16 00
Cash on hand December 18, 1880.....	4,967 92

\$261,111 27

RECEIPTS AND EXPENDITURES

ing Dec. 18, 1880.

with GEORGE W. PIPER, Treasurer.

Cr.

By cash on hand December 20, 1879	\$4,191	22
By cash received and credited as follows, viz:—		
Poor department	\$3,272	41
School	1,050	24
Fire	20	00
Highway	111	52
Incidentals	6,008	39
Public Property	94	50
Day and night police	942	98
Interest. On overdue taxes	\$1,297	50
City R. R. dividends	2,782	50
On bank deposit	198	37
Discount on county tax	23	80
	4,302	17
Public library	611	60
Sidewalks and edgestones	816	20
Newburyport bridge	90	
Notes payable	96,011	18
State of Massachusetts, state aid and armories	4,285	16
“ “ aid paid under law of 1878	500	00
“ “ military aid, law of 1879	596	00
Liquor licenses	7,800	00
Non-resident bank tax	2,206	89
Market house and cellar	400	00
City Hall	871	25
Burial lots	40	00
Bromfield fund	400	00
Sinking fund commissioners, to pay city note	7,000	00
Fuel	1	10
Tax of 1876	21	39
“ 1877	251	00
“ 1878	6,220	21
“ 1879	14,368	38
“ 1880	98,669	72
“ 1873	11	48
Commissioners of Atkinson common	35	38
	\$261,111	27

Respectfully submitted,

GEORGE W. PIPER, Treasurer

Newburyport, December 18, 1880.

ANNUAL STATEMENT OF

Dr. CITY OF NEWBURYPORT in account current

To uncollected taxes of 1873.....	\$	11	48	
“ “ 1874.....		186	30	
“ “ 1875.....		133	00	
“ “ 1876.....		112	67	
“ “ 1877.....		361	60	
“ “ 1878.....		8,668	31	
“ “ 1879.....		21,579	21	31,052 57

To tax of 1880, committed by assessors, viz:—

City tax... ..	\$107,200	00	
State tax.....	6,555	00	
County tax... ..	7,135	54	
Overlay of taxes.....	2,357	63	
Supplementary commitment.....	322	32	
To non-resident bank tax of 1880.....	4,915	13	128,485 62

\$159,538 19

THE COLLECTOR OF TAXES.

with *GEORGE W. PIPER, Collector.**Cr.*

By taxes of 1873, collected and paid treasurer....	\$	11	48	
“ 1876, “ “		21	39	
“ 1877, “ “		251	00	
“ 1878, “ “		6,220	21	
“ 1879, “ “		14,368	38	
“ 1880, “ “		98,669	72	\$119,542 18
By non-resident bank tax of 1880				4,915 13
By abatements of taxes of 1874.....	\$	186	30	
“ “ 1875.....		133	00	
“ “ 1876.....		91	28	
“ “ 1877.....		85	20	
“ “ 1878.....		2,247	10	
“ “ 1879.....		313	13	
“ “ 1880.....		1,525	08	\$4,581 09
By uncollected taxes of 1877, to new account.....	\$	25	40	
“ “ 1878, “		201	00	
“ “ 1879, “		6,897	70	
“ “ 1880, “		23,375	69	\$30,499 72
				\$159,538 19

Respectfully submitted,

GEORGE W. PIPER, Collector.

Newburyport, December 18, 1880.

STATEMENT OF INCOME AND EXPENDITURES.

Showing Balance carried to Sinking Fund December 18, 1880.

Assessed for city purposes	\$107,200	00	
overlay and re-assessment.....	\$2,679	95	
income credited to the several			
departments.....	26,600	15	29,280 10 \$136,480 10
Assessed for state tax..	6,555	00	
" county tax.....	7,135	54	
Income from Bromfield fund.....	400	00	
Balance of Bromfield fund account, December 20, 1879	1	01	
Received from commissioners of Atkinson common			
during year ending date.....	35	38	
Balance due from commissioners of Atkinson common			
account December 18, 1880... ..	22	82	14,149 75
			<u>150,629 85</u>
Payments on sundry departments.....	125,977	49	
Abatement of taxes of 1880	1,525	08	
Debit balances of abatements of taxes of 1874-75-76-			
77 and 1878	1,011	53	
Paid state tax.....	6,555	00	
county tax.....	7,135	54	
commissioners of Atkinson common accoutnt...	16	00	
Bromfield fund account.....	402	25	
Balance due from commissioners of Atkinson com-			
mon account, December 20, 1879.....	42	20	142,665 09
			<u>7,964 76</u>
Deduct balance to credit of abatements of taxes of 1880.			1,654 87
Amount carried to sinking fund this year....			<u>6,309 89</u>

STATEMENT OF CITY DEBT,

December 18, 1880.

	Due.	Interest.	Rate.	Amount.
City bonds.....	1883	\$2,375 00	5	\$47,500 00
“	1884	75 00	5	1,500 00
“	1885	264 00	6	4,400 00
“	1886	240 00	6	4,000 00
“	1887	3,330 00	6	55,500 00
“	1888	4,500 00	6	75,000 00
“	1889	1,200 00	6	20,000 00
“	1890	3,780 00	6	63,000 00
“ school house loan.....	1890	1,380 00	6	23,000 00
“ Horse railroad loan.....	1890	1,500 00	6	25,000 00
“ City railroad loan.....	1891	4,540 00	6	74,000 00
Notes payable, No. 243.....	1881	270 00	4½	6,000 00
“ “ 244.....	1881	22 50	4½	500 00
“ “ 250.....	1882	405 00	4½	9,000 00
“ “ 239.....	1883	135 00	4½	3,000 00
“ “ 240.....	1883	90 00	4½	2,000 00
“ “ 247.....	1883	54 00	4½	1,200 00
“ “ 248.....	1883	45 00	4½	1,000 00
“ “ 249.....	1883	45 00	4½	1,000 00
“ “ 253.....	1884	45 00	4½	1,000 00
“ “ 254.....	1884	45 00	4½	1,000 00
“ “ 255.....	1884	45 00	4½	1,000 00
“ “ 256.....	1884	27 00	4½	600 00
“ “ 257.....	1884	22 50	4½	500 00
“ “ 258.....	1884	22 50	4½	500 00
“ “ 259.....	1884	40 50	4½	900 00
“ “ 260.....	1884	22 50	4½	500 00
“ “ 285.....demand.		61 86	6	1,031 00
Committee on the Sawyer fund.....	“	225 00	4½	5,000 00
“ Brown fund.....	“	675 00	4½	15,000 00
Overseers of the poor (Dexter fund, ...	“	90 00	4½	2,000 00
Trustees of will of Margaret Atwood..	“	472 50	4½	10,500 00
		\$25,944 86		\$456,131 00
Due sundry accounts.....				1,665 59
Gross debts				457,796 59
Less sinking fund and other assets, per schedule				75,843 48
Net debt December 18, 1880.....				381,953 11
“ “ 20, 1879.....				390,075 34
Decrease of debt in 1880.....				\$8,122 23

DEBTS DUE THE CITY DEC. 18, 1880.

Taxes of 1877.....	\$	25	40
“ 1878.....		201	00
“ 1879.....		6,897	70
“ 1880.....		23,375	69
Sinking fund at par.....		34,515	89
Due from state, for state aid.....		3,271	00
armory rent, etc.....		900	00
poor soldiers' and sailors' law of 1878.....		384	06
military aid under law of 1879.....		1,282	00
Commissioners of Atkinson common.....		22	82
Cash on hand December 18, 1880.....		4,967	92
Total amount.....	\$	75,843	48

STATE OF MASSACHUSETTS

IN ACCOUNT WITH

THE CITY OF NEWBURYPORT.

Balance due from state December 20, 1879.....	\$	5,401	22
Rent of armories, 1880.....	\$	850	00
State aid paid in 1880.....		3,569	00
Military aid paid to soldiers and sailors under chapter 252			
acts of 1879.....		1,398	00
		5,817	00
			\$11,218 22

RECEIVED.

For account of armory rents.....	\$	800	00
“ state aid, chapter 301.....		3,485	16
“ aid to poor and indigent soldiers paid under chap. 282, acts of 1878.....		500	00
For account of military aid, chapter 252.....		298	00
From incidental account for 1-2 of payment made for 1879,			
under chapter 252, acts of 1879.....		298	00
Balance due the City of Newburyport.....	\$	5,837	06

DUE FROM THE STATE DECEMBER 18, 1880.

For armory rent, etc.....	\$	900	00
state aid.....		3,271	00
aid to poor soldiers and sailors paid under law of 1878.....		384	06
military aid under law of 1879.....		1,282	00
	\$	5,837	06

COMMISSIONERS OF ATKINSON COMMON
IN ACCOUNT WITH THE
CITY OF NEWBURYPORT.

Balance due the city December 20, 1879.....\$42 20
Expenditures this year..... 16 00 58 20

CREDITS.

Received for hay and rent..... 35 38
Amount due the city December 18, 1880, carried to new account..... 22 82

TRIAL BALANCE.

DR.	DECEMBER 18, 1880.		CR.
Mechanics Nat'l bank..	\$ 4,125 44	City bonds	\$270,900 00
Boston first “ 	321 14	railroad loan.....	74,000 00
Revere “ 	62 23	school house loan....	23,000 00
Cash	459 11	horse railroad loan...	25,000 00
City of Newburyport.....	287,269 00	Notes payable	63,231 00
City railroad.....	74,200 00	Abatement of taxes of 1879	10 72
State of Mass., armories..	4,171 00	“ 1880	1,654 87
“ poor sol-		Sinking fund.....	33,351 03
diers and sailors	384 06		
State of Mass., military aid	1,282 00		
New school house	30,000 00		
Horse railroad	25,000 00		
Commissioners of Atkinson			
son common.....	22 82		
Tax of 1877.....	25 40		
“ 1878	201 00		
“ 1879.....	6,897 70		
“ 1880.....	23,375 69		
Sinking Fund Commis'rs..	33,351 03		
	<u>\$491,147 62</u>		<u>\$491,147 62</u>

SCHEDULE OF PUBLIC PROPERTY.

REAL ESTATE.

City Hall, brick, on Brown's square.....	\$33,000 00
Market house, brick, on Market square.....	12,000 00
Almshouse, brick; out-buildings and land.....	12,000 00
Land on Low street, powder house lot.....	1,500 00
" Davenport lot.....	1,500 00
Land on Hill street, Coffin lot.....	1,000 00
Land on High and Wesley street	50 00
Gravel pit on North Atkinson street.....	800 00
Gravel pit and land on Coffin's court.....	350 00
Hearse house, pounds, and gun.....	400 00
Gravel pit on Greenleaf street	2,000 00
Ferryways and right of way of same.....	100 00
Two burial grounds.....	3,000 00
	\$67,700 00

SCHOOL HOUSES.

Brick school house on Hancock street ..	\$4,900 00
" " Bromfield street.....	7,000 00
" " School street.....	12,000 00
" " Temple street....	3,500 00
" " State street.....	500 00
" " High street.....	1,800 00
" " Congress street.....	5,000 00
" " Wesley street.....	3,200 00
" " Forrester street.....	8,000 00
" " corner High and Auburn streets	41,000 00
Wooden school house on Purchase street.....	200 00
" " Purchase street....	3,500 00
" " Charles street.....	900 00
" " State street.....	4,000 00
Two wooden school houses on Congress street	3,000 00
" " Ashland streets.....	3,000 00
	\$101,500 00

ENGINE HOUSES.

No. 2 engine house on Water street.....	\$1,600 00
No. 3 " Congress street.....	2,000 00
No. 6 " Munroe street.....	1,000 00
No. 7 " Merrimac street.....	2,500 00
No. 8 " Purchase street.....	2,500 00
Hook and ladder, and hose house, on Pleasant street	3,500 00
	<u>\$13,100 00</u>

PERSONAL PROPERTY.

Furniture in City hall, Market hall, and engine houses.....	\$ 3,000 00
Three steamers, three hand engines, hook and ladder, hose car- riages, hose, hooks, ladders, hydrants, etc.....	34,000 00
Furniture, stores, fuel, tools, farming implements and animals, in and about almshouse and out-buildings.	6,500 00
Standard weights and measures.....	300 00
Nine horses.....	1,800 00
Carts, sleds, harnesses, etc.....	1,000 00
Stock in the Newburyport city railroad.....	74,200 00
Stock in the Newburyport and Amesbury horse railroad.....	25,000 00
	<u>\$145,800 00</u>

RECAPITULATION.

Real estate.....	\$ 67,700 00
School houses.....	101,500 00
Engine houses.....	13,100 00
Personal property.....	145,800 00
	<u>\$328,100 00</u>

DETAILED STATEMENT OF RECEIPTS AND EXPENDITURES

From Dec. 20, 1879 to Dec. 18, 1880.

POOR DEPARTMENT.

Appropriation\$12,000 00

CREDITS.

Cash from city of Boston.....	\$	26	25	
“ Salem		51	00	
“ Haverhill.....		20	25	
“ Gloucester		17	75	
Cash from town of Malden		57	25	
“ Amesbury		51	25	
“ West Newbury		2	25	
“ Beverly		85	00	
“ Ipswich		67	25	
“ Salisbury.....		227	00	
“ Newbury.....		8	50	
“ Merrimac		2	87	
“ Danvers		10	07	
“ Hamilton.....		8	85	
Cash from Wm. H. Bayley, returned aid, etc.		1261	93	
“ “ sale of pigs....		44	00	
“ “ barrels.....		30	00	
“ “ onions		20	00	
Cash from Wm. Thurlow, for potatoes....		17	75	
“ Alfred Lowell, “		10	00	
“ board of sundry persons.....		351	05	
“ state support, transportation and burial of state paupers		709	15	
Cash from May pay roll....		4	64	
“ public property.....		84	25	
“ estate of Hannah Eastman.....		24	00	
“ J. M. Greenough, 8,010 lbs. hay		80	10	3,272 41
Total amount, appropriation and income.....		15,272	41	
Amount overdrawn, transfered from Incidentals to balance account.....		1,047	48	
				\$16,319 89

EXPENDITURES.

Authorized by the Overseers of the Poor.

JANUARY.

Dr. E. P. Hurd, professional services	\$159 69
Town of Rowley, supplies furnished.....	20 00
Charles R. Sargent, labor and stock.....	2 25
G. A. Randall, boarding George Shoot.....	26 00
City of Gloucester, fuel and provisions.....	38 14
Daniel Buckley, 19 qts. of milk.....	95
Henry R. Weitzel, services as undertaker.....	14 50
City of Salem, for wood.....	6 25
Edward J. Lunt, keeper of almshouse.....	45 16
Lyman W. Lord, services as teamster.....	40 00
Ariel Pearson, jr., " cook.....	30 00
William H. Bayley, " clerk.....	41 66
Edward W. Pearson, provisions.....	44 10
Isaac P. Noyes, P. M., postage stamps.....	3 00
Dr. F. A. Hale, professional services.....	50 00
M. M. Ross, groceries	194 47
Estate of Charles Smith, ice	22 52
Mrs. Flynn, board of Annie Maroney.....	5 87
John M. Little, jr., 19 lbs. of straw.....	11 40
Robert Bayley & Son, letter press... ..	10 00
Thomas P. Mackinney, hardware.....	7 79
George Lucy, services with horse.....	75
William A. Davis & Co., duck overalls.....	3 90
S. H. Safford & Co., services as undertaker..	143 50
J. C. Stevens & Co., tea and tobacco.....	94 58
Willard J. Hale, dry goods.....	29 89
Hunt & Davis, groceries.....	184 11
N. & T. Foster, 2 dozen plates.....	1 50
Charles L. Davis, medicines, etc.....	90 73
Dr. A. B. Dearborn, professional services.....	30 00
George E. Greeley, work on tin ware	15 57
F. N. French, groceries, tacks, etc.....	74 18
Town of Georgetown, aid rendered to Alice Pulcifer.....	53 50
B. H. Jaques, barrel of soap.....	4 00
A. F. Ross & Co., 5 boxes of soap	16 75
Amount carried forward	\$1,516 71

<i>Amount brought forward</i>	\$1,516 71
George W. Perkins, 12 gallons of clams ...	5 40
George W. Clark, school books, ink, etc	4 01
John G. Plummer, 2500 pollock at 2 3-4	68 75
Sumner, Swasey & Currier, pork, flour, etc.....	303 45
C. C. Toppan, clothing.....	150 32
John Sumner, tin and hardware....	19 06
William H. Bayley, clerk, supplies to sundry persons ...	140 00
William C. Plummer, groceries.....	23 06
Henry Lunt, men's mittens	10 23
Paul Titcomb, grain.....	148 85
Luther Tenney, board of C. M. Aubin	13 00
William W. Perkins, board of William Chase.....	4 00
Harris Pearson, 4 barrels crackers	15 00
Charles W. Kimball, provisions.....	63 99
	<u>\$2,485 83</u>

FEBRUARY.

Ipswich Insane Asylum, board and supplies to sundry persons for six months ending Dec. 31, 1879.....	\$708 91
Danvers Insane Asylum, board and supplies to sundry persons for three months ending Dec. 31, 1879... ..	149 41
Taunton Lunatic Asylum, board and supplies to sundry persons to Dec. 31, 1879	21 83
Northampton Insane Asylum, board and supplies to sundry persons to Dec. 31, 1879... ..	44 38
Worcester Chronic Asylum, board and supplies to sundry persons to Dec. 31, 1879.....	41 43
Worcester Lunatic Hospital, board and supplies to sundry persons to Dec. 31, 1879	49 63
Ipswich House of Correction, board and supplies to sundry persons to Dec. 31, 1879	34 99
City of Haverhill, burial of Jane Sheppard.....	12 00
City of Lawrence, aid rendered.....	4 00
Town of Peabody, "	6 00
M. P. Perley, buttons, cotton and hose.....	7 28
Moses Brown, dry goods.....	47 01
Benjamin Barbour, 23 1-6 day's labor	23 15
A. F. Ross & Co., tea and coffee... ..	48 50
<i>Amount carried forward</i>	<u>\$1,198 52</u>

<i>Amount brought forward</i>	\$1,198 52
John O. Akerman, provisions	24 44
U. S. post office, stamps.....	3 00
George H. Plummer, dry goods.....	25 15
William W. Perkins, board of William Chase.....	5 00
E. J. Currier, 12 days dress making.....	9 00
H. C. Plummer, dry goods.....	17 80
P. H. Blumpey, groceries.....	15 45
Charles Peabody, 1 pair of boots	1 25
William Porter, use of horse 14 days.....	14 00
E. P. Hurd, professional services.....	17 30
F. A. Hale, ".....	31 00
William H. Bayley, services as clerk of overseers	41 66
William H. Bayley, cash allowed to sundry persons.....	168 00
E. J. Lunt, keeper of almshouse.....	48 31
Lyman W. Lord, services as teamster.....	40 00
Ariel Pearson, jr., " cook.....	30 00
Paul Titcomb, grain.....	38 80
Edward P. Shaw, groceries.....	76 24
George P. Bishop, repairing harness.....	16 55
Frank N. French, groceries.....	47 32
Hunt & Davis, flour and coffee	87 24
William A. Davis & Son, 20 yards cotton duck.....	5 40
George W. Clark, 1 sheet of oil paper.....	25
Moses H. Fowler, 10 barrels flour.....	72 50
	<u>\$2,034 18</u>

MARCH.

Commonwealth of Mass., board and supplies to sundry persons	75 86
Town of Rowley, board and supplies to sundry persons....	2 00
City of Lynn, " ".....	75 00
Town of Weymouth, " ".....	34 75
City of Chelsea, " ".....	72 00
City of Boston, " ".....	185 95
Town of Beverly, " ".....	8 25
Wm. H. Bayley, clerk, " ".....	138 80
Wm. H. Bayley, services as clerk of overseers.....	54 18
Edward J. Lunt, services as keeper and cash paid.....	54 61
<i>Amount carried forward</i>	<u>\$701 40</u>

<i>Amount brought forward</i>	\$701 40
Lyman W. Lord, services as teamster.	40 00
Ariel Pearson, jr., " cook.....	30 00
George W. Perkins, 12 gallons of clams.....	5 40
William Thurlow, tobacco	57 54
E. P. Hurd, professional services.....	8 00
Amos Coffin, coal.....	4 75
Wheeler & Whittier, groceries etc.....	6 64
Amos H. Geary, hats and caps.....	11 79
John Q. Adams, provisions.....	182 48
James Jewett, board of sundry persons.....	13 00
Mary Ann Garran, services as nurse	5 00
T. W. Mitchell, repairing boots and shoes.....	11 04
C. W. Kimball, provisions	28 53
Stephen Coker, leather.....	5 95
David Smith, 2110 lbs. litter.....	8 44
N. B. Lake, 5 1-2 dozen of hose.....	13 35
E. P. Shaw, groceries, etc.....	79 72
Levy & Co., hosiery, cotton, etc.....	18 87
Samuel March, groceries, etc.....	96 81
Richardson Brothers, salt.....	3 00
Hunt & Davis, 10 barrels of flour.....	75 00
Paul Titcomb, grain.....	27 20
Elizabeth Gerrish, services rendered	7 87
William Holker & Co., stove funnel, pans, etc.....	56 65
H. W. Bartlett, boots and shoes.....	52 60
William W. Perkins, board of William Chase.....	4 00

\$1,555 03

APRIL.

Town of Boxford, care of sundry persons.....	3 25
Town of Salisbury "	36 75
City of New Bedford, "	2 81
City of Cambridge, "	72 25
Town of Amesbury, "	78 82
William H. Huse & Co., advertising and printing.....	25 50
A. F. Ross & Co., tea and coffee,.....	49 3
H. A. Wilson, groceries	65 31
L. E. Pritchard, hats and mittens	2 52

Amount carried forward..... \$336 51

<i>Amount brought forward</i>	\$336 51
E. P. Shaw, sugar, beans, etc.....	61 37
William H. Bayley, clerk, board of sundry persons.....	168 92
William H. Bayley, services as clerk of overseers.....	47 92
Edward J. Lunt, services as keeper of almshouse.....	42 31
Lyman W. Lord, " teamster.....	40 00
Ariel Pearson, jr., " cook	30 00
Hunt & Davis, groceries.....	159 95
F. N. French, crackers, coffee, etc.....	70 86
L. Haskell, irons for wheelbarrow.....	2 50
William C. Plummer, groceries.....	45 18
George W. Plummer, 1-2 gallon of clams	5 40
J. M. Greenough, horse hire	18 00
W. W. Perkins, board of William Perkins.....	4 00
Charles Noyes, smoking hams.....	8 50
E. P. Hurd, professional services.....	21 60
Thomas P. Mackinney, hardware.....	70
Henry R. Weitzel, services as undertaker.....	68 00
Pearson Brothers, groceries and provisions....	14 73
E. J. Currier, dress making.....	5 25
Paul Titcomb, grain	35 25
	<u>\$1,186 95</u>

MAY.

Danvers Insane Asylum, supplies to sundry persons.....	163 43
Northampton Insane Asylum, supplies to sundry persons..	44 96
Commonwealth of Mass., " ..	13 00
Worcester Lunatic Hospital, " " ..	52 30
Worcester Chronic Insane, " " ..	43 60
William H. Bayley, services as clerk of overseers.....	47 92
William H. Bayley, clerk, board of sundry persons.....	177 95
Edward J. Lunt, services as keeper.....	45 91
Lyman W. Lord, " teamster.....	40 00
Ariel Pearson, jr., " cook.....	30 00
E. Battelle, 54 qts. of milk....	3 24
Charles R. Sargent, stock and labor.....	2 00
Isaac P. Noyes, P. M., postage stamps.....	6 00
John Pearson, jr., biscuits.....	4 64
Daniel Lunt, 1 lb. red onion seed.....	4 00
<i>Amount carried forward</i>	\$678 95

<i>Amount brought forward</i>	\$678 95
George W. Perkins, 9 galls. clams.....	4 05
Charles H. Johnson, books, envelopes, etc.....	25 33
E. P. Shaw, 1 barrel of sugar.....	30 44
C. C. Toppan, clothing.....	61 25
Richardson Brothers, provisions.....	37 42
John H. Balch, 6 yds. matting.....	5 10
William C. Plummer, groceries.....	49 81
C. N. Ballou, clothing.....	110 07
John Q. Adams, provisions.....	55 05
Paul Titcomb, grain.....	34 75
Henry Z. Whittier, bags.....	5 20
Stephen H. Thurlow, hardware.....	23 29
	\$1,120 71

JUNE.

A. F. Ross & Co., tea and coffee.....	62 05
David H. Cook, services rendered.....	3 00
William H. Bayley, services as clerk.....	47 92
William H. Bayley, clerk, board of sundry persons... ..	151 50
Edward J. Lunt, services as keeper.....	57 01
Lyman W. Lord, " teamster.....	40 00
Ariel Pearson, jr., " cook.....	30 00
John O. Akerman, provisions.....	58 29
George W. Perkins, 6 galls. clams.....	2 70
Charles C. Stockman, wood seat rockers.....	3 50
Richardson Brothers, provisions.....	1 36
Justin C. Smith, 1 doz. straw hats.....	1 75
William C. Plummer, groceries.....	76 32
Frank N. French, groceries.....	77 92
A. B. Dearborn, professional services.....	12 40
Elizabeth Gerrish, work at almshouse.....	8 25
Pearson Brothers, soda.....	8 18
D. D. Thurlow, fish.....	16 08
C. W. Kimball, provisions.....	21 64
Paul Titcomb, grain.....	26 90
Henry R. Weitzel, burial of Mrs. Crowley.....	14 50
Mrs. E. J. Currier, dress making.....	6 75
	\$728 02

JULY.

George W. Thomas, 61 lbs. of tobacco.....	26 23
F. A. Hale, medical attendance	13 50
A. F. Ross & Co., 5 boxes soap.....	16 25
George A. Ramsdell, board of George Chute.....	5 00
C. E. Dillingham, board of Arthur Palmer.....	3 75
William H. Bayley, 1 month's services as clerk.....	47 92
William H. Bayley, clerk, board of sundry persons	140 50
Edward J. Lunt, services as keeper.....	52 21
Lyman W. Lord, " teamster.....	40 00
Ariel Pearson, jr., " cook	30 00
Charles L. Davis, medicines	131 69
William C. Plummer, groceries.....	164 50
N. B. Lake, dry goods.....	16 30
James J. Healey professional services	3 00
Henry Barth, cutting hair	1 75
F. N. French, groceries	66 31
B. F. Pettingell, boots and shoes	91 00
Willard J. Hale, dry goods	110 47
Hunt & Davis, groceries.....	33 39
T. W. Mitchell, repairing boots	8 70
Mrs. E. Gerrish, work at alms house.....	4 50
Paul Titcomb, grain	26 45
Stephen H. Thurlow, hardware.....	10 84
Henry R. Weitzel, services as undertaker.....	21 50
James Jewett, board of Charles Aubin	5 67
William Holker, & Co., hardware.....	17 29
Isaac P. Noyes, P. M., postage stamps.....	6 00
John N. Pike, railroad expense.....	10 40

\$1,105 12

AUGUST.

Danvers Insane Asylum, board of sundry persons.....	164 30
Ipswich " " "	590 71
Northampton " " "	48 25
Worcester Chronic Insane, " "	42 25
Ipswich House of Correction, " "	11 43
State Reform School, " "	13 00
Town of Malden. " "	53 25

Amount carried forward.....\$923 19

<i>Amount brought forward</i>	\$923 19
City of Lawrence, supplies to sundry persons.....	14 00
Town of Dedham, " ".....	28 85
City of Lynn, " ".....	92 50
Ordway & Hatch, groceries.....	22 35
William Little, 66 quarts of milk.....	2 64
Paul Adams, liquors to poor department.....	8 10
Dr. James J. Healy, professional services ...	34 65
E. P. Hurd, professional services.....	17 40
Edward P. Shaw, groceries.....	39 42
William C. Plummer, groceries.....	153 68
William H. Bayley, clerk, board of sundry persons.....	167 75
William H. Bayley, 1 months' services as clerk.....	47 92
Edward J. Lunt, services as keeper.....	54 16
Lyman W. Lord, " teamster.....	40 00
Ariel Pearson, jr., " cook.....	30 00
Thomas Ahern, 12 day's work on hay.....	10 00
John O. Akerman, provisions.....	14 07
Richardson Brothers, groceries and provisions.....	3 82
Hunt & Davis, brooms and tea.....	74 68
Henry R. Weitzel, services as undertaker.....	21 50
F. N. French, groceries.....	66 20
Paul Titcomb, grain.....	22 80
C W. Kimball, provisions.....	86 02
	\$1,975 70

SEPTEMBER.

A. F. Ross & Co., soap and tea.....	57 29
E. P. Shaw, groceries.....	138 60
I. & W. Little, horse hitch.....	4 00
T. P. Mackinney, grafting wax... ..	15
B. H. Jaques, soap and lime.....	28 36
E. P. Hurd, professional attendance.....	42 80
William Huff, tomato and cabbage plants.....	4 25
Hunt & Davis, groceries.....	73 37
J. M. Greenough, horse hire.....	64 75
William A. Little, boots and shoes.....	16 75
City of Gloucester, board of sundry persons.....	13 81
George H. Plumer, dry goods.....	33 39
<i>Amount carried forward</i>	\$477 52

<i>Amount brought forward</i>	\$477 52
George E. Greeley, mending tin ware	5 60
William C. Plummer, groceries	51 83
William H. Bayley, services as clerk	47 92
William H. Bayley, clerk, board of sundry persons.....	158 60
Edward J. Lunt, services as keeper	58 30
Lyman W. Lord, " teamster	40 00
Ariel Pearson, jr., " cook	30 00
E. B. Stover, boots and shoes	5 60
William H. Huse & Co., advertising.....	18 00
Stephen Coker, rope and Paris green	5 31
Charles L. Davis, medicine	59 47
Joseph Bartlett, white sand	7 99
A. H. Geary, hats and caps	7 70
George W. Snow, professional attendance	2 20
D. D. Thurlow, fish.....	29 33
Mrs. E. Gerrish, services rendered ...	3 75
Paul Titcomb, grain	32 10
John Janvrin, box of tobacco	20 00
H. Z. Whittier, paper bags	7 76
	\$1,068 98

OCTOBER.

Hunt & Davis, groceries	206 74
E. P. Hurd, professional services.....	40 00
Paul Titcomb, grain	18 55
Joseph Akerman, provisions	35 34
William A. Davis & Son, making bed sacks, etc	9 17
L. E. Pritchard, materials for Lizzie Anderson.....	2 25
E. W. Pearson, provisions.....	64 91
J. C. Smith, hats.....	6 00
George W. Thomas, 40 lbs. tobacco	17 20
Benjamin F. Poor, provisions	74 00
A. B. Dearborn, professional services	5 20
Nelson French, groceries	88 22
William H. Bayley, clerk, board of sundry persons.....	163 70
William H. Bayley, services as clerk of overseers....	47 92
Edward J. Lunt, services as keeper.....	44 66
Lyman W. Lord, " teamster.....	40 00
<i>Amount carried forward</i>	
	\$863 86

<i>Amount brought forward</i>	\$863 86
Ariel Pearson, jr., " cook	30 00
Moses H. Fowler, 7 bbls. flour	47 75
Plumer & Balch, 49 gallons of molasses	24 50
E. J. Currier, services as dressmaker	6 75
I. P. Noyes, postage stamps	6 50
	\$979 36

NOVEMBER.

Hunt & Davis, groceries	136 99
William C. Plummer, groceries	62 10
M. W. Boardman, board of child	33 61
Leonard C. Pike, boots and shoes	39 80
City of Gloucester, medicine and attendance of Mrs. Long	20 00
Samuel March, groceries	39 82
William H. Bayley, services as clerk of overseers	47 92
William H. Bayley, clerk, board of sundry persons	188 65
Edward J. Lunt, services as keeper	44 76
Lyman W. Lord, " teamster	40 00
Ariel Pearson, jr., " cook	30 00
F. W. Putnam, cash paid for freight	4 75
Henry P. Sargent, use of hay wagon	6 00
Sewell B. Noyes, wringer and high chair	9 35
T. C. Pike, use of wagon	3 00
C. C. Toppan, clothing	97 50
George W. Perkins, 20 gals. of clams	10 15
John G. Plummer, 1100 lbs. of dry fish	35 75
Frank J. Welch, 2 Vol. Mass. Records, etc., 8, caps	6 80
A. D. Russell, sugar	53 08
Joseph Akerman, provisions	18 85
Elizabeth Gerrish, work at alms house	3 75
George P. Bishop, repairing harness, etc... ..	6 00
Henry R. Weitzel, services as undertaker	58 00
John Janvrin, tobacco	40 00
Thomas W. Mitchell, repairing boots and shoes	6 55
	\$1,043 18

DECEMBER.

Commonwealth of Mass., support of sundry persons . .	20 00
Northampton Insane Asylum, support of sundry persons..	53 27
<i>Amount carried forward</i>	\$73 27

<i>Amount brought forward</i>	\$73 27
Worcester Chronic Insane, ..	28 13
City of Salem, ..	47 78
C. W. Learned, purifying powder.....	24 00
William Thurlow, pork and mittens ..	30 00
B. H. Jaques, soap	2 00
N. B. Lake, dry goods.....	14 52
Stephen Coker, leather	5 76
William H. Bayley, clerk, support of sundry persons.....	194 30
William H. Bayley, 1 months' services as clerk	47 92
Edward J. Lunt, services as keeper	44 16
Lyman W. Lord, " teamster	40 00
Ariel Pearson, jr., " cook.....	30 00
George E. Greeley, work on tin	8 20
Alfred Wheeler, services as undertaker.....	14 50
Joseph Akerman. provisions	14 98
Nelson French, groceries	97 11
Paul Titcomb, grain	83 20
George W. Perkins, 9 gals. clams	4 35
Philip H. Blumpey, groceries.....	7 95
D. D. Thurlow, fish.....	7 20
C. W. Kimball, provisions	45 10
H. Z. Whittier, paper and paper bags.....	5 99
S. H. Thurlow, hardware.	24 68
William Holker & Co., watering pots and pails	7 89
Joseph C. Lunt, services at funeral	7 25
Paul A. Merrill, groceries	59 96
Moses H. Fowler, groceries.....	67 50
	<u>\$1,037 70</u>

RECAPITULATION.

Bills paid in January.....	\$2,485 83
" February	2,034 18
" March	1,555 03
" April	1,186 08
" May.....	1,120 71
" June	728 02
" July.	1,105 12
" August	1,975 70
" September	1,068 98
" October.....	979 36
" November.....	1,043 18
" December.....	1,037 70

Total expenditures for the year ending Dec. 18, 1880. \$16,319 89

SCHOOL DEPARTMENT.

Appropriation\$23,500 00

CREDITS.

State school fund.....\$243 74

One year's interest on Brown fund..... 702 50

J. F. Young, secretary, fees from non resi-

dent school children..... 104 00 1,050 24

\$24,550 24

Transferred from incidentals to balance account..... 40 23

Total amount appropriation and income.....\$24,590 40

EXPENDITURES.

Authorized by the School Committee.

JANUARY.

A. H. Thompson, one month's services as teacher.....\$141 66

O. B. Merrill, " " 100 00

L. Dame, " " 100 00

A. A. Senter, " " 50 00

N. A. Moulton, " " 83 33

J. N. Balch, " " 29 16

Abby Short, " " 29 16

M. J. Bradley, " " 29 16

Eva J. Smith, " " 29 16

M. C. Thurston, " " 29 16

M. E. Jaques, " " 27 08

F. A. Winn, " " 27 08

George W. Brown, " " 66 66

Francis J. Pearson, " " 29 16

William P. Lunt, " " 83 33

Lucy Low, " " 29 16

Sarah B. Chute, " " 54 16

E. Frothingham, " " 29 16

A. L. Coffin, " " 35 41

E. M. Lander, " " 29 16

S. J. Shackford, " " 35 41

Amount carried forward.....\$1066 56

<i>Amount brought forward</i>	\$1,066	56
Priscilla G. Craig, one month's services as teacher.....	29	16
S. D. Toppan. " ".....	35	41
M. Agnes Pearson, " ".....	29	16
Rhoda Tilton, " ".....	29	16
Carrie M. Clement, " ".....	25	00
A. A. Currier, " ".....	29	16
Jennie P. Haskell, " ".....	25	00
Annie S. Wheeler, " ".....	27	08
Susie B. Lowell, " ".....	29	16
Mary E. Estes, " ".....	27	08
Helen M. Currier, " ".....	29	16
E. H. S. Pike, " ".....	27	08
Hannah H. Page, " ".....	27	08
Mrs. W. S. Gray, " ".....	29	16
S. F. Badger, " ".....	27	08
C. J. Edgerly, " ".....	29	16
M. E. Cogswell, " ".....	35	58
M. L. Bartlett, " ".....	29	16
S. E. Whitmore, " ".....	27	08
A. A. Somerby, " ".....	29	16
N. M. Stanton, " ".....	27	08
A. H. Olmstead, " ".....	27	08
F. J. Pettigrew, " ".....	29	16
Flora Pettigrew, " ".....	27	08
Belle P. Winslow, " ".....	27	50
Hattie P. Cheney. " ".....	37	50
Mary J. Mills, sweeping schools.....	15	00
Henry A. Wilson, brushes and mats.....	3	90
John A. L. Odd'e, brooms and brushes.....	15	30
Ireland & Trefethen, chairs and clock.....	70	25
Samuel March, 8 water pails.....	80	
Fred P. Hinckley, services as janitor.....	22	00
H. Stockman, jr., duster and flour brushes.....	18	90
Charles E. Ash, building fires.....	12	00
Daniel G. Tilton, brooms and brushes.....	8	60
Jonathan Wells, building fires.....	11	25
William H. Huse & Co., printing and advertising.....	25	00
<i>Amount carried forward</i>	\$2,020	03

<i>Amount brought forward</i>	\$2,020 03
N. N. Withington, services as secretary and preparing reports	70 00
John B. Porter, services as truant officer.....	25 00
Paul A. Merrill, 5 water pails.....	5 42
D. T. Woodwell, services as agent.....	33 33
Safford & Lunt, repairing clocks.....	8 25
J. L. Hammett, 1 dozen erasers	1 50
	<u>\$2,163 53</u>

FEBRUARY.

A. H. Thompson, one month's services as teacher.....	141 67
O. B. Merrill, " "	100 00
L. Dame, " "	100 00
A. A. Senter, " "	50 00
Belle P. Winslow, " "	25 00
N. A. Moulton, " "	83 33
J. N. Balch, " "	29 17
Abby Short, " "	29 17
M. J. Bradley, " "	29 17
Eva J. Smith, " "	29 17
M. P. Thurston, " "	29 17
M. E. Jaques, " "	27 08
F. A. Winn, " "	27 08
George W. Brown, " "	66 67
F. J. Pearson, " "	29 17
W. P. Lunt, " "	83 33
Lucy Low, " "	29 17
A. L. Coffin, " "	35 42
E. M. Lander, " "	29 17
S. J. Shackford, " "	35 42
P. G. Craig, " "	29 17
Sarah B. Chute, " "	54 17
E. Frothingham, " "	29 17
S. D. Toppan, " "	35 42
M. Agnes Pearson, " "	29 17
Rhoda Tilton, " "	29 17
Carrie M. Clement, " "	25 00
A. A. Currier, " "	29 17

Amount carried forward.... \$1,268 80

<i>Amount brought forward</i>			\$1,268 80
Jennie P. Haskell,	"	"	25 00
Annie S. Wheeler,	"	"	27 08
Susie B. Lowell,	"	"	29 17
Mary E. Estes,	"	"	27 08
Helen M. Currier,	"	"	29 17
E. H. S. Pike,	"	"	27 08
Hannah H. Page,	"	"	27 08
Mrs. W. S. Gray,	"	"	29 17
S. F. Badger,	"	"	27 08
C. J. Edgerly,	"	"	29 17
M. E. Cogswell,	"	"	27 08
M. L. Bartlett,	"	"	29 17
S. E. Whitmore,	"	"	27 08
A. A. Somerby,	"	"	29 17
N. M. Stanton,	"	"	27 08
A. H. Olmstead,	"	"	27 08
F. J. Pettigrew,	"	"	29 17
Flora Pettigrew,	"	"	27 08
Hattie P. Cheney,	"	"	37 50
George B. Johnson, 5 gals. of ink.....			6 25
R. K. Southwell, work on desk.....			75
Fred P. Hinckley, services as janitor.....			22 00
Benjamin M. Chase, sweeping schools.....			12 50
George W. Clark, school books.....			4 10
H. G. Johnson, jr., 1 feather duster.....			2 50
A. Stanwood & Co., soap.....			3 38
Bertie Frost, sweeping schools.....			3 75
Maurice Corcoran, building fires.....			9 00
Jonathan Wells,	"		22 50
Charles E. Ash,	"		12 00
S. H. Fowle, school books, etc.....			15 42
C. H. Johnson, school books, etc.....			20 40
			\$1,940 84

MARCH.

A. H. Thompson, one month's services as teacher.....	\$141	67
O. B. Merrill,		

<i>Amount brought forward</i>			\$341 67
A. A. Senter, one month's services as teacher.....			50 00
Belle P. Winslow, " "			42 31
N. A. Moulton, " "			83 34
J. N. Balch, " "			29 17
Abby Short, " "			29 17
M. J. Bradley, " "			29 17
Eva J. Smith, " "			29 17
M. P. Thurston, " "			29 17
M. E. Jaques, " "			27 09
F. A. Winn, " "			27 09
George W. Brown, " "			66 67
F. C. Pearson, " "			29 17
William P. Lunt, " "			83 34
Lucy Low, " "			29 17
A. L. Coffin, " "			35 42
E. M. Lander, " "			29 17
S. J. Shackford, " "			35 42
P. G. Craig, " "			29 17
Sarah B. Chute, " "			54 17
E. Frothingham, " "			29 17
S. D. Toppan, " "			35 42
M. Agnes Pearson, " "			29 17
Rhoda Tilton, " "			29 17
Carrie M. Clement, " "			25 00
A. A. Currier, " "			29 17
Jennie P. Haskell, " "			25 00
Annie S. Wheeler, " "			27 09
Susie B. Lowell, " "			29 17
Mary E. Estes, " "			27 09
Helen M. Currier, " "			29 17
E. H. S. Pike, " "			27 09
Hannah H. Page, " "			27 09
Mrs. W. S. Gray, " "			29 17
S. F. Badger, " "			27 09
C. J. Edgerly, " "			29 17
M. E. Cogswell, " "			27 09
M. L. Bartlett, " "			29 17

Amount carried forward..... \$1,619 54

<i>Amount brought forward</i>	\$1,619 54
S. E. Whitmore, one month's services as teacher.....	27 09
A. A. Somerby, " " ".....	27 09
N. M. Stanton, " " ".....	27 09
A. H. Olmstead, " " ".....	27 09
F. J. Pettigrew, " " ".....	29 17
Flora Pettigrew, " " ".....	27 09
Hattie P. Cheney, " " ".....	37 50
Fred P. Hinckley, services as janitor.....	22 00
Benjamin M. Chase, sweeping public schools	6 25
Eben P. Allen, services as janitor	27 50
Jonathan Wells, building fires.....	11 25
Joseph C. Lunt, " " ".....	50 00
Mrs. Jane Mills, sweeping schools	15 00
Martin B. Lamb, shoveling snow	3 50
Charles E. Ash, building fires	12 00
John B. Porter, sweeping schools.....	43 75
George W. Clark, school supplies.....	37 41
Lord Brothers, tassels and cord....	12 78
	<u>\$2,063 10</u>

APRIL.

A. H. Thompson, one month's services as teacher.....	\$141 66
O. B. Merrill, " " ".....	100 00
L. Dame, " " ".....	100 00
A. A. Senter, " " ".....	50 00
Belle P. Winslow, " " ".....	37 50
N. A. Moulton, " " ".....	83 33
J. N. Balch, " " ".....	29 16
Abby Short, " " ".....	29 16
M. J. Bradley, " " ".....	29 16
Eva J. Smith, " " ".....	29 16
M. P. Thurston, " " ".....	29 16
M. E. Jaques, " " ".....	27 08
F. A. Winn, " " ".....	27 08
George W. Brown, " " ".....	66 66
F. J. Pearson, " " ".....	29 16
William P. Lunt, " " ".....	83 33

Amount carried forward.....\$891 60

<i>Amount brought forward</i>		\$891 60
Lucy Low, one month's services as teacher.....		29 16
A. L. Coffin, " "		35 41
E. M. Lander, " "		29 16
S. J. Shackford, " "		35 41
P. G. Craig, " "		29 16
Sarah B. Chute, " "		54 16
E. Frothingham, " "		29 16
S. D. Toppan, " "		35 41
M. Agnes Pearson, " "		29 16
Rhoda Tilton, " "		29 16
Carrie M. Clement, " "		25 00
A. A. Currier, " "		29 16
Jennie P. Haskell, " "		25 00
Annie S. Wheeler, " "		27 08
Susie B. Lowell, " "		29 16
Mary E. Estes, " "		27 08
Helen M. Currier, " "		29 16
E. H. S. Pike, " "		27 08
Hannah H. Page, " "		27 08
Mrs. W. S. Gray, " "		29 16
S. F. Badger, " "		27 08
C. J. Edgerly, " "		29 16
M. E. Cogswell, " "		27 08
M. L. Bartlett, " "		29 16
S. E. Whitmore, " "		27 08
A. A. Somerby, " "		27 08
N. M. Stanton, " "		27 08
A. H. Olmstead, " "		27 08
F. J. Pettigrew, " "		29 16
Flora Pettigrew, " "		27 08
Hattie P. Cheney, " "		37 50
George W. Brown, teacher of evening school.....		21 00
E. A. W. Pearson, " "		32 00
M. J. Bradley, " "		14 00
E. A. Dodge, " "		11 00
H. E. Lunt, " "		27 00
Sadie S. Stanwood, " "		18 00

Amount carried forward.....\$1,942 45

<i>Amount brought forward</i>	\$1,942 45
William H. Huse & Co., printing and advertising.....	110 00
Boston School Supply Co., 3 globes.....	1 20
C. R. Sargent, making keys.....	1 25
John B. Porter, services as truant officer.....	25 00
H. A. Wilson, water pails and mats.....	3 30
Charles E. Ash, building fires.....	12 00
Jonathan Wells, ".....	11 25
Fred P. Hinckley, services as janitor.....	22 00
Benjamin M. Chase, sweeping schools....	6 25
Maurice Corcoran, building fires.....	4 50
Baker, Pratt & Co., 12 gross Alpha matches.....	9 00
L. J. Hammett, 1 dozen erasers.....	1 50
John D. Parsons, services as janitor.....	35 60
S. H. Fowle, school supplies.....	17 60
	<u>\$2,202 90</u>

MAY.

A. H. Thompson, one month's services as teacher.....	\$141 67
O. B. Merrill, ".....	100 00
Luther Dame, ".....	100 00
A. A. Senter, ".....	50 00
Belle P. Winslow, ".....	37 50
N. A. Moulton, ".....	83 33
J. N. Balch, ".....	29 17
Abbie Short, ".....	29 17
M. J. Bradley, ".....	29 17
Eva J. Smith, ".....	29 17
M. C. Thurston, ".....	29 17
M. E. Jaques, ".....	27 08
F. A. Winn, ".....	27 08
George W. Brown, ".....	66 67
F. J. Pearson, ".....	29 17
William P. Lunt, ".....	83 33
Lucy Low, ".....	29 17
A. L. Coffin, ".....	35 42
E. M. Lander, ".....	29 17
S. J. Shackford, ".....	35 42
P. G. Craig, ".....	29 17
Sarah B. Chute, ".....	54 17

Amount carried forward.....\$1,104 20

<i>Amount brought forward</i>		\$1,104 20
E. Frothingham, one month's services as teacher.....		29 17
S. D. Toppan, " "		35 42
M. A. Pearson, " "		29 17
Rhoda Tilton, " "		29 17
Carrie M. Clement, " "		25 00
S. A. Currier, " "		29 17
Jennie P. Haskell, " "		25 00
Annie S. Wheeler, " "		27 08
Susie B. Lowell, " "		29 17
Mary E. Estes, " "		27 08
Helen M. Currier, " "		29 17
E. H. S. Pike, " "		27 08
Hannah H. Page, " "		27 08
Mrs. W. S. Gray, " "		29 17
S. F. Badger, " "		27 08
C. J. Edgerly, " "		29 17
M. E. Cogswell, " "		27 08
M. L. Bartlett, " "		29 17
S. E. Whitmore, " "		27 08
A. A. Somerby, " "		27 08
N. M. Stanton, " "		27 08
A. H. Olmstead, " "		27 08
F. J. Pettigrew, " "		29 17
Flora Pettigrew, " "		27 08
Hattie P. Cheney, " "		37 50
Fred P. Hinckley, services as janitor		29 16
H. Stockman, jr., dusters, etc.....		12 38
M. C. Teel, printing		16 00
Gerrish & Goodwin, stock and labor		3 24
G. B. Johnson, 5 gals. ink.....		6 25
Benjamin M. Chase, sweeping schools.....		6 25
Isaac P. Noyes, P. M., postage stamps.....		1 64
A. & E. Burton & Co., dusters.....		1 25
Charles E. Ash, building fires.....		12 00
Thomas P. Mackinney 1 nail hammer.....		50
Mrs. Mary Mills, sweeping schools.....		15 00
Eben B. Robbins, building fires, etc.....		55 00
<i>Amount carried forward</i>		\$1,972 37

<i>Amount brought forward</i>	\$1,972 37
J. L. Hammett, globes, pencil sharpeners, etc.....	4 50
Henry Cook, jr., school supplies	17 33
C. H. Johnson, "	26 86
Trustees of Putnam Free School, rent of school house....	750 00
	\$2,771 06

JUNE.

A. H. Thompson, one month's services as teacher.....	\$141 67
O. B. Merrill, " "	100 00
Luther Dame, " "	100 00
A. A. Senter, " "	50 00
Belle P. Winslow " "	37 50
N. A. Moulton, " "	83 34
J. N. Balch, " "	29 17
Abbie Short, " "	29 17
M. J. Bradley, " "	29 17
Eva J. Smith, " "	29 17
M. C. Thurston, " "	29 17
M. E. Jaques, " "	27 09
F. A. Winn, " "	27 09
George W. Brown, " "	66 67
F. J. Pearson, " "	29 17
W. P. Lunt, " "	83 34
Lucy Low, " "	29 17
A. L. Coffin, " "	35 42
E. M. Lander, " "	29 17
S. J. Shackford, " "	35 42
P. G. Craig, " "	29 17
Sarah B. Chute, " "	54 17
E. Frothingham, " "	29 17
S. D. Toppan, " "	35 42
M. Agnes Pearson, " "	29 17
Rhoda Tilton, " "	29 17
Carrie M. Clement, " "	25 00
S. A. Currier, " "	29 17
Jennie P. Haskell, " "	25 00
Annie S. Wheeler, " "	27 09

Amount carried forward.....\$1,333 43

<i>Amount brought forward</i>	\$1,333 43
Helen M. Currier, one month's services as teacher	29 17
E. H. S. Pike, " "	27 09
Hannah H. Page, " "	27 09
Susie B. Lowell, " "	29 17
Mary E. Estes, " "	27 09
Mrs. W. S. Gray, " "	29 17
S. F. Badger, " "	27 09
C. J. Edgerly, " "	29 17
M. E. Cogswell, " "	27 09
M. L. Bartlett, " "	29 17
S. E. Whitmore, " "	27 09
A. A. Somerby, " "	27 09
N. M. Stanton, " "	27 09
A. H. Olmstead, " "	27 09
F. J. Pettigrew, " "	29 17
Flora Pettigrew, " "	27 09
Hattie P. Cheney, " "	37 50
F. P. Hinckley, services as janitor	26 16
Benjamin M. Chase, sweeping schools	6 25
John B. Porter, sweeping schools	55 75
Mrs. E. K. Knapp et als., supply of water	4 00
Jonathan Wills, building fires	22 50
Joseph C. Lunt, "	25 00
Charles E. Ash, "	12 00
Maurice Corcoran, "	4 50
	\$1,973 01

JULY.

A. H. Thompson, one month's services as teacher	\$141 66
O. B. Merrill, " "	100 00
Luther Dame, " "	100 00
A. A. Senter, " "	50 00
Belle P. Winslow, " "	37 50
N. A. Moulton, " "	83 33
J. N. Balch, " "	29 16
Abbie Short, " "	29 16
M. J. Bradley, " "	29 16
<i>Amount carried forward</i>	\$599 97

<i>Amount brought forward</i>			\$599 97
Eva J. Smith, one month's services as teacher.....			29 16
M. C. Thurston,	"	"	29 16
M. E. Jaques,	"	"	27 08
F. A. Winn,	"	"	27 08
George W. Brown,	"	"	66 66
F. J. Pearson,	"	"	29 16
William P. Lunt,	"	"	83 33
Lucy Low,	"	"	29 16
A. L. Coffin,	"	"	35 41
E. M. Lander,	"	"	29 16
S. J. Shackford,	"	"	35 41
P. G. Craig,	"	"	29 16
Sarah B. Chute,	"	"	54 16
E. Frothingham,	"	"	29 16
S. D. Toppan,	"	"	35 41
M. Agnes Pearson,	"	"	29 16
Rhoda Tilton,	"	"	29 16
Carrie M. Clement,	"	"	25 00
S. A. Currier,	"	"	29 16
Jennie P. Haskell,	"	"	25 00
Annie S. Wheeler,	"	"	27 08
Susie B. Lowell,	"	"	29 16
Mary E. Estes,	"	"	27 08
Helen M. Currier,	"	"	29 16
E. H. S. Pike,	"	"	27 08
Hannah H. Page,	"	"	27 08
Mrs. W. S. Gray,	"	"	29 16
S. F. Badger,	"	"	27 08
C. J. Edgerly,	"	"	29 16
M. E. Cogswell,	"	"	27 08
M. L. Bartlett,	"	"	29 16
S. E. Whitmore,	"	"	27 08
A. A. Somerby,	"	"	27 08
N. M. Stanton,	"	"	27 08
A. H. Olmstead,	"	"	27 08
F. J. Pettigrew,	"	"	29 16
Flora Pettigrew,	"	"	27 08
Hattie P. Cheney,	"	"	37 50

Amount carried forward.....\$1,816 45

<i>Amount carried forward</i>	\$1,816 45
Mary J. Mills, sweeping schools	15 00
H. T. Crofoot, wire staples	40
Fred P. Hinckley, services as janitor	15 17
Jonathan Wells, building fires	11 25
Charles R. Sargent, labor and stock	1 65
Bertie Frost, sweeping schools	9 00
C. W. Learned & Co., disinfectant powder.	10 00
J. C. Stanley, wire netting.....	1 18
Benjamin M. Chase, sweeping schools.....	6 25
A. & E. Burton & Co., dusters.....	12 60
James P. Greeley, teaming... ..	6 30
Martin B. Lamb, building fires.....	27 40
Isaac P. Noyes, postage stamps	54
John B. Porter, services as truant officer	25 00
Henry Hewett, use of hack.....	3 00
	<u>\$1,961 19</u>

AUGUST.

A. H. Thompson, one month's services as teacher.....	\$141 67
O. B. Merrill, " "	100 00
L. Dame, " "	100 00
A. A. Senter, " "	50 00
Belle P. Winslow, " "	37 50
N. A. Moulton, " "	83 33
J. N. Balch, " "	29 17
Abbie Short, " "	29 17
M. J. Bradley, " "	29 17
Eva J. Smith, " "	29 17
M. C. Thurston, " "	29 17
M. E. Jaques, " "	27 08
F. A. Winn, " "	27 08
George W. Brown, " "	66 67
F. J. Pearson, " "	29 17
W. P. Lunt, " "	83 33
Lucy Low, " "	29 17
A. L. Coffin, " "	35 42
E. M. Lander, " "	29 17
S. J. Shackford, " "	35 42
<i>Amount carried forward</i>	<u>\$1,020 86</u>

<i>Amount brought forward</i>		\$1,020 86
P. G. Craig, one month's services as teacher.....		29 17
Sarah B. Chute, " "		54 17
E. Frothingham, " "		29 17
S. D. Toppan, " "		35 42
M. Agnes Pearson " "		29 17
Rhoda Tilton, " "		29 17
Carrie M. Clement, " "		25 00
S. A. Currier, " "		29 17
Jennie P. Haskell, " "		25 00
Annie S. Wheeler, " "		27 08
Susie B. Lowell, " "		29 17
Mary E. Estes, " "		27 08
Helen M. Currier, " "		29 17
E. H. S. Pike, " "		27 08
Hannah H. Page, " "		27 08
Mrs. W. S. Gray, " "		29 17
S. F. Badger, " "		27 08
C. J. Edgerly, " "		29 17
M. E. Cogswell, " "		27 08
M. L. Bartlett, " "		29 17
S. E. Whitmore, " "		27 08
A. A. Somerby, " "		27 08
N. M. Stanton, " "		27 08
A. H. Olmstead, " "		27 08
F. J. Pettigrew, " "		29 17
Flora Pettigrew, " "		27 08
Hattie P. Cheney, " "		37 50
Mrs. Maurice Corcoran, cleaning school house		2 00
Benjamin M. Chase, sweeping school house		6 25
Fred P. Hinckley, services as janitor		15 17
Henry Hewett, use of hack		1 00

 \$1,841 12

SEPTEMBER.

A. H. Thompson, one month's services as teacher.....		\$141 67
O. B. Merrill, " "		100 00
Luther Dame, " "		100 00
A. A. Senter, " "		50 00

Amount carried forward.....\$391 67

<i>Amount brought forward</i>			\$391 67
Belle P. Winslow, one month's services as teacher.....			37 50
N. A. Moulton, " "			83 34
J. N. Balch, " "			29 17
Abbie Short, " "			29 17
M. J. Bradley, " "			29 17
Eva J. Smith, " "			29 17
M. P. Thurston, " "			29 17
M. E. Jaques, " "			27 09
F. A. Winn, " "			27 09
George W. Brown, " "			66 67
F. J. Pearson, " "			29 17
W. P. Lunt, " "			83 34
Lucy Low, " "			29 17
A. L. Coffin, " "			35 42
E. M. Lander, " "			29 17
S. J. Shackford, " "			35 42
P. G. Craig, " "			29 17
Sarah B. Chute, " "			54 17
E. Frothingham, " "			29 17
S. D. Toppan, " "			35 42
M. Agnes Pearson, " "			29 17
Rhoda Tilton, " "			29 17
Carrie M. Clement, " "			25 00
S. A. Currier, " "			29 17
Jennie P. Haskell, " "			25 00
Annie S. Wheeler, " "			27 09
Susie B. Lowell, " "			29 17
Mary E. Estes, " "			27 09
Helen M. Currier, " "			29 17
E. H. S. Pike, " "			27 09
Hannah H. Page, " "			27 09
Mrs. W. S. Gray, " "			29 17
S. F. Badger, " "			27 09
C. J. Edgerly, " "			29 17
M. E. Cogswell, " "			27 09
M. L. Bartlett, " "			29 17
S. E. Whitmore, " "			27 09
<i>Amount carried forward</i>			\$1,641 82

<i>Amount brought forward</i>	\$1,641 82
A. A. Somerby, one month's services as teacher.....	27 09
N. M. Stanton, " ".....	27 09
A. H. Olmstead, " ".....	27 09
F. J. Pettigrew, " ".....	29 17
Flora Pettigrew, " ".....	27 09
Hattie F. Cheney, " ".....	37 50
A. J. Leighton, carting chairs and settees.....	3 00
T. P. Mackinney, twine and tacks.....	60
Benjamin M. Chase, sweeping schools.....	6 25
John B. Porter, " ".....	43 75
Fred P. Hinckley, services as janitor.....	15 17
Eben P. Allen, " ".....	27 50
C. E. Currier, hand brushes.....	9 78
D. T. Woodwell, services as agent.....	66 67
Daniel G. Tilton, brushes and pails.....	8 03
H. G. Johnson, jr., office basket.....	1 00
	\$1,998 87

OCTOBER.

A. H. Thompson, one month's services as teacher.....	\$141 66
O. B. Merrill, " ".....	100 00
Luther Dame, " ".....	100 00
A. A. Senter, " ".....	50 00
Belle P. Winslow, " ".....	37 50
N. A. Moulton, " ".....	83 33
J. N. Balch, " ".....	29 16
Abby Short, " ".....	29 16
M. J. Bradley, " ".....	29 16
Eva J. Smith, " ".....	29 16
Harriet C. Piper, " ".....	25 00
M. E. Jaques, " ".....	27 08
A. H. Olmstead, " ".....	27 08
George W. Brown, " ".....	66 66
F. J. Pearson, " ".....	29 16
William P. Lunt, " ".....	83 33
Lucy Low, " ".....	29 16
A. L. Coffin, " ".....	35 41
E. M. Lander, " ".....	29 16

Amount carried forward..... \$981 17

<i>Amount brought forward</i>		\$981 17
S. J. Shackford, one month's services as teacher.....	35 41	
P. G. Craig, " "	29 16	
Sarah B. Chute, " "	54 16	
E. Frothingham, " "	29 16	
S. D. Toppan, " "	35 41	
A. A. Somerby, " "	29 16	
Rhoda Tilton, " "	29 16	
Carrie M. Clement, " "	27 08	
S. A. Currier, " "	29 16	
Jennie P. Haskell, " "	27 08	
Annie S. Wheeler, " "	29 16	
Susie B. Lowell, " "	29 16	
Mary E. Estes, " "	27 08	
Helen M. Currier, " "	29 16	
Belle P. Emerton, " "	25 00	
Hannah H. Page, " "	27 08	
Mrs. W. S. Gray, " "	29 16	
S. F. Badger, " "	27 08	
C. J. Edgerly, " "	29 16	
M. E. Cogswell, " "	27 08	
M. L. Bartlett, " "	29 16	
S. E. Whitmore, " "	27 08	
N. M. Stanton, " "	27 08	
Carrie M. Bailey, " "	22 91	
Susan J. Adams, " "	22 91	
F. J. Pettigrew, " "	29 16	
Flora Pettigrew, " "	27 08	
Hattie P. Cheney, " "	37 50	
Daniel T. Colby, school examination.....	9 25	
D. T. Woodwell, cash paid for cleaning	113 75	
D. T. Reed, repairing organ	5 50	
Brockway, Donnell & Jackman, taking census of children	75 00	
Mrs. Mary Mills, sweeping schools	15 00	
Fred P. Hinckley, services as janitor	15 17	
Benjamin M. Chase, sweeping school houses.....	6 25	
John B. Porter, services as truant officer	25 00	

Amount carried forward\$2,073 03

<i>Amount brought forward</i>	\$2,073 03
William Merrill, use of pump.....	4 00
George B. Johnson, 5 gals. of ink.....	6 25
I. P. Noyes, P. M., postage stamps.....	69
Trustees of Putnam Free school, rent for High school....	750 00
Henry Cook, jr., school supplies	34 90
	\$2,868 87

DECEMBER.

A. H. Thompson, one month's services as teacher.....	\$187 13
O. B. Merrill, " " 	132 00
L. Dame, " " 	132 00
A. A. Senter, " " 	65 93
Belle P. Winslow, " " 	49 70
N. A. Moulton, " " 	109 90
J. N. Balch, " " 	13 09
Abby Short, " " 	38 48
M. J. Bradley, " " 	38 48
Eva J. Smith, " " 	38 48
Harriet C. Piper, " " 	32 98
M. E. Jaques, " " 	35 73
Alice H. Olmstead, " " 	35 73
George W. Brown, " " 	98 42
Francis J. Pearson, " " 	38 48
William P. Lunt, " " 	109 90
Lucy Low, " " 	38 48
A. L. Coffin, " " 	46 72
E. M. Lander, " " 	38 48
S. J. Shackford, " " 	46 72
Priscilla G. Craig, " " 	38 48
Sarah B. Chute, " " 	71 44
E. Frothingham, " " 	38 48
S. D. Toppan, " " 	46 72
A. A. Somerby, " " 	38 48
Rhoda Tilton, " " 	38 48
Carrie M. Clement, " " 	35 73
A. A. Currier, " " 	38 48
Jennie P. Haskell, " " 	35 73
Annie S. Wheeler, " " 	38 48

Amount carried forward.....\$1,747 33

<i>Amount brought forward</i>	\$1,747 33
Susie B. Lowell, one month's services as teacher.....	38 48
Mary E. Estes, " ".....	34 97
Helen M. Currier, " ".....	38 48
Belle P. Emerton, " ".....	32 97
Hannah H. Page, " ".....	35 73
Mrs. W. S. Gray, " ".....	38 48
S. F. Badger, " ".....	35 73
C. J. Edgerly, " ".....	38 48
M. E. Cogswell, " ".....	35 73
M. L. Bartlett, " ".....	38 48
S. E. Whitmore, " ".....	33 37
N. M. Stanton, " ".....	9 82
Carrie M. Bayley, " ".....	30 29
Susan J. Adams, " ".....	30 29
F. J. Pettigrew, " ".....	38 48
Flora Pettigrew, " ".....	35 73
Hattie P. Cheney, " ".....	49 21
Alice M. Leach, " ".....	16 00
F. E. Pettingell, " ".....	22 50
D. T. Woodwell, cash paid.....	15 00
E. A. Dodge, services as teacher.....	1 00
Fred P. Hinckley, services as janitor.....	52 34
George S. Cate, brooms and brushes.....	9 55
A. & E. Burton & Co., 4 doz. brushes.....	13 25
William H. Huse & Co., printing and advertising.....	49 75
A. J. Leighton, teaming.....	1 00
Benjamin M. Chase, sweeping school house.....	12 50
A. D. Russell, 2 rope mats, etc.....	3 04
George B. Johnson, 5 gallons of ink.....	6 25
A. H. Nichols, copygram.....	3 00
John B. Porter, sweeping schools.....	43 75
C. H. Johnson, school supplies.....	77 47
Jonathan Wells, building fires.....	22 50
Charles Pearson, repairs on school house.....	1 60
Hall & Whiting, Latin grammar.....	1 00
Sewell B. Noyes, arm chair and cushions.....	2 75
Joseph C. Lunt, building fires.....	25 00
<i>Amount carried forward</i>	\$2,721 30

<i>Amount brought forward</i>	\$2,721 30
H. Cook, jr., school supplies.....	10 50
Charles E. Ash, building fires.....	24 00
S. H. Fowle, school supplies.....	50 18
	\$2,805 98

RECAPITULATION.

Bills paid in January.....	\$2,163 53
“ February.....	1,940 84
“ March	2,063 10
“ April	2,202 90
“ May.....	2,771 06
“ June	1,663 01
“ July.....	1,961 19
“ August	1,841 12
“ September.....	1,998 87
“ October.....	2,868 87
“ December	2,805 98
Expenditures for the year ending December 18, 1880..	\$24,590 47

FIRE DEPARTMENT.

Appropriation	\$3,500 00
Income from engine company No. 2.	20 00
Transferred from Incidentals to balance account.	718 01
	\$7,238 01

EXPENDITURES

Authorized by the Committee on Fire Department.

JANUARY.

George P. Bishop, traces and whip.	6 30
William Holker & Co., oil can and wash bowl	35 28
Lemuel Hicken, watching fire	3 50
H. G. Johnson, jr., 12 feather dusters at \$2.50.	30 00
Blake & Noyes, lettering and varnishing box.	75
B. H. Jaques, 1 gal. soap	16
John H. Curran, repairing hose carriage, etc.	4 45
John A. Greeley, stock and labor.	4 00
A. D. Russell, hand brush	25
M. M. Ross, matches and soap.	51 28
Albert Russell & Sons, grate, etc.	1 10
Charles R. Sargent, stock and labor.	120 00
Engine company, No. 7, work at Bayley hat factory.	20 00
Thomas P. Mackinney, two snow shovels.	1 40
Bartlet steam mills, 15 1-2 pounds of warp yarn.	3 88
Safford & Lunt, repairing clock.	1 00
H. H. Landford, cleaning and washing hose.	5 50
William H. Toppan, repairing well.	1 70
George Lucy, horse and buggy	75
Gerrish and Goodwin, stock and labor.	12 10
Joseph W. Landford, teaming for fires	41 00
William Porter, "	23 25
Howard, Snelling & Co., 22,000 lbs. coal.	148 50
Edwin A. Littlefield, agent, hauling tender to fire.	41 00
Charles H. Goodwin, cleaning and oiling hose.	36 68
E. M. Bickford, services as steward.	24 16
S. P. Boardman, services as engineer	39 16
<i>Amount carried forward.</i>	<i>\$657 15</i>

<i>Amount brought forward</i>	\$657 15
Paul A. Merrill, nails and soap.....	1 13
Charles E. Bamford, services as fireman.....	1 67
City treasurer, cash paid for coal	17 00
	<u>\$676 95</u>

FEBRUARY.

Steamer company, No. 3, pay of members....	\$62 25
City clerk, for Bamford, services rendered.....	3 00
E. M. Bickford, services as steward.....	12 08
W. H. P. Howard, two months' services as engineer.....	39 16
Naiad Queen steamer, filling reservoir....	18 00
Steamer Co., No. 1, ".....	18 00
T. B. Robbins, 9 bbls. shavings.....	2 25
R. C. McConnell, hauling engine	11 00
John C. Buckley, labor on well.....	2 50
A. Stanwood & Co., tallow oil and soap.....	18 43
E. W. Gerrish, labor and stock.....	9 15
George P. Bishop, belts, sockets and whips	9 35
Michael Donahoe, 1-2 day's labor	50
Charles H. Goodwin, cleaning and coiling hose	11 85
J. B. Pritchard, yarns, hooks, etc	4 85
J. A. Adams, teaming	41 00
	<u>\$263 37</u>

MARCH.

City clerk, for W. Groves, labor on reservoir.....	\$ 7 00
E. M. Bickford, one month as steward.....	12 08
George N. Black, three months as steward.....	32 25
Charles E. Ash, one month as steward	12 08
C. H. Goodwin, labor on hose, etc.....	11 30
William Porter, jr., labor with horses	57 25
J. A. Adams, teaming coal, etc	16 00
S. H. Rundlett, being ready for fires.....	15 00
Robert C. McConnell, hauling engine.....	5 00
John B. Blake, extra work at fires	1 25
William Holker & Co., lanterns, watering pots, etc	5 85
George W. Stickney, repairing steamer	2 00
Charles R. Sargent, stock and labor.....	38 06
	<u>\$215 12</u>

APRIL.

Frank E. Davis, stock and labor.....	119 60
Thomas P. Mackinney, hardware.....	2 61
Paul Adams, one empty barrell.....	1 25
City Clerk, for W. G., cleaning reservoirs of snow and ice.	27 00
Samuel Cook, " ".....	28 00
P. M. Lougee, work on No. 7.....	5 00
Edward F. Porter, fire hat.....	7 50
John T. Butman, painting engine No. 7.....	45 00
William Porter, hauling engine.....	17 50
S. H. Rundlett, hauling engine, etc.....	10 00
E. M. Bickford, services as steward.....	12 08
Blake & Noyes, painting ladders.....	95
John B. Porter cleaning snow from reservoirs.....	10 00
George C. Perkins, two days' work on steamer.....	4 00
Steamer Co., No. 1, filling reservoir.....	10 00
	<u>\$300 49</u>

MAY.

Board of Engineers, six months' service.....	180 00
Steamer Co., No. 1, ".....	140 50
Samuel P. Boardman, services as engineer.....	78 34
Frank Hardy, ".....	12 50
E. M. Bickford, services as fireman.....	12 08
Engine Co., No. 2, 6 months' service.....	130 50
William McKay, services as foreman.....	5 00
Isaac Poor, jr., " clerk.....	5 00
George N. Black, " fireman.....	28 16
Caleb Stickney, 2d, " engineer.....	12 50
George W. Stickney, " ".....	118 50
Steamer Co., No. 3, 6 months' service.....	65 25
Wm. H. P. Howard, services as engineer.....	63 76
George C. Perkins, " ".....	12 50
A. P. Lewis, " foreman.....	3 33
Charles E. Ash, " fireman.....	60 42
Engine Co., No. 7, 6 months' service.....	377 00
Engine Co., No. 8, ".....	377 00
Young America H. and L. Co., 6 months' service.....	207 50
Luther Haskell, wagon for 4 days.....	2 00
<i>Amount carried forward.....</i>	<u>\$1,891 84</u>

<i>Amount brought forward</i>	\$1,891 84
S. C. Reed, frames for alarm.....	3 00
A. L. Jackson, shoveling snow.....	46 00
George P. Bishop, stock and labor.....	3 50
Thurston & Colman, lumber.....	90
Frank J. Welch, shades.....	1 75
James M. Woods, hoop on tank, etc.....	4 00
George W. Stanwood, labor on hose.....	2 00
Robert McConnell, hauling engine to fire.....	5 50
Engine Co. No. 7, filling reservoirs.....	35 00
Andrew J. Leighton, teaming hose, etc.....	25 55
Charles H. Goodwin, stock and labor...	10 60
Joseph W. Landford, hauling water and coal to fires.....	21 00
	\$2,050 64

JUNE.

Charles E. Ash, firing and cleaning engine.....	3 00
J. B. Pritchard, labor on sprinkler.....	25
E. M. Bickford, services as steward.....	12 08
Wm. H. P. Howard, services as engineer.....	19 58
Frank E. Davis, lanterns repaired, etc.....	5 00
Charles R. Sargent, repairing hose, etc.....	24 75
	\$64 66

JULY.

City clerk, cash paid.....	\$32 75
E. M. Bickford, services as steward.....	12 08
George N. Black, ".....	24 16
William Holker & Co., watering pot, oil can, etc.....	2 45
James Boyd & Son, Eureka horse pipe.....	15 00
John S. Frost, cash paid.....	6 90
	\$93 34

AUGUST

Samuel P. Boardman, services as engineer.....	\$58 75
Louis Patriquin, service on engine.....	13 25
H. A. Winship, white fire hats.....	42 50
Thomas P. Mackinney, emery cloth.....	95
Thomas B. Robbins, two bbls. shavings.....	50
George P. Bishop, 20 gals. neats' foot oil.....	28 00
	\$143 95

SEPTEMBER.

Engine Co. No. 7	225 00
Wm. H. P. Howard, services as engineer	58 74
George N. Black, " steward	24 16
E. M. Bickford, " "	24 16
A. Stanwood & Co., tallow oil	5 50
William B. Porter, cleaning hose	5 83
M. Gillen, 1 pair of straps	1 75
Marston & Morse, services rendered	1 70
	<u>\$346 84</u>

OCTOBER.

No. 1 steamer company, services of fifteen men	100 00
E. M. Bickford, services as steward	11 32
No. 8 engine company, filling reservoir	15 00
No. 2 " "	15 00
John S. Frost, labor on hose	16 10
J. Otis Winkley, expenses to Boston	3 00
William H. Noyes, expenses to Boston	3 00
David Smith, 300 bricks	2 10
Moody Brothers, work on hook and ladder	79 90
J. H. Curran, labor on iron work	4 35
William A. Davis & Son, rope yarns	30
Bartlet steam mills, 68 lbs. of waste	6 80
James M. Woods, repairing hose carriage	5 00
A. J. Leighton, teaming	7 75
William Holker & Co., cleaning out stove, etc	18 27
	<u>\$287 89</u>

NOVEMBER.

Board of engineers, six months' service	181 80
Hook and ladder company, "	207 50
Engine company No. 7, "	152 00
" No. 8, "	377 00
Steamer company No. 1, "	40 50
Samuel P. Boardman, labor and stock	53 24
E. M. Bickford, services as steward	11 25
Frank Hardy, " assistant engineer	12 50
Caleb Stickney, 2d, " "	12 50
<i>Amount carried forward</i>	<u>\$1,48 29</u>

<i>Amount brought forward</i>	\$1,048 29
William McKay, services as foreman	5 00
Isaac Poor, jr., " clerk	5 00
George W. Stickney, " engineer	107 50
George N. Black, " fireman	22 50
Steamer company No. 2, six months' services	130 50
W. H. P. Howard, services as clerk of steamer	34 16
Steamer company No. 3, six months' services of 15 men . . .	130 50
A. P. Lewis, service of foreman	5 00
Charles E. Ash, services as steward	76 00
George C. Perkins, services as assistant engineer	12 50
L. Button & Son, one horse hose carriage	600 00
L. D. Shaw, one automatic relief valve	100 00
George P. Bishop, repairing harness, etc.	50 10
T. B. Robbins, 4 bbls. of shavings	1 00
W. Porter, jr., use of sprinklers two days	4 00
S. H. Thurlow, one screw wrench	1 00
Blake & Noyes, one keg rotten stone	7 00
R. C. McConnell, hauling engine to fire, etc.	15 25
A. D. Russell, sponge	60
A. J. Leighton, hauling hook and ladder	15 00
William B. Porter, hauling engines to fires	22 10
Cate and Holker, expenses to Boston	6 00
	<u>\$2,399 00</u>

DECEMBER.

Hugh McGlew. work on teams	\$24 57
Charles R. Sargent, labor and stock	58 41
Edwin A. Littlefield, hauling tender to fire	57 00
Lord Brothers, curtain fixtures, cords, etc	14 04
P. M. Lougee, carriage at fire	7 50
J. A. Adams, teaming	52 00
Charles W. Badger, 5 gals. of oil	4 00
James M. Woods, repairing hose carriage	5 50
T. B. Robbins, 10 bbls. shavings	2 50
John Sumner, repairing pails, etc	1 75
A. Stanwood & Co., lard	6 30
William Holker & Co., labor on stoves	22 74
Moses M. Ross, kerosene and wicks	44 04
<i>Amount carried forward</i>	<u>\$300 35</u>

<i>Amount brought forward</i>	\$300 35
City treasurer, cash paid for freight	19 30
William A. Noyes, hauling hose carriage.....	10 00
William H. P. Howard, services as engineer.....	14 58
George P. Bishop, blankets and oil.....	15 50
Edwin M. Bickford, services as steward	11 25
Thurston & Colman, use of wheels.....	12 43
E. H. & G. J. George, labor on steamer	3 75
S. Coker, 2 lbs. of emery	40
Hamilton Haynes, repairing axes.....	2 20
John S. Frost, labor on reservoir.....	6 00
	\$395 76

RECAPITULATION.

Bills paid in January.....	\$ 676 95
“ February.....	263 37
“ March	215 12
“ April	300 49
“ May.....	2,050 64
“ June	64 66
“ July	93 34
“ August	143 95
“ September... ..	346 84
“ October	287 89
“ November	2,399 00
“ December	395 76

Total expenditures for year ending December 18, 1880..\$7,238 01

HIGHWAY DEPARTMENT.

Appropriations for Highways.....\$3,000 00

CREDITS.

From Hardy Brothers.....	25 80	
Ireland and Trefethen.....	3 90	
T. H. Lunt.....	1 50	
T. H. Boardman	50 87	
E. T. Northend	1 00	
M. B. Jackman	22 48	
Jacob B. Brown.....	4 37	
Superintendent, for gravel, etc.....	1 60	\$3,111 52

Appropriations for sidewalk and edgestones \$1,000 00

CREDITS.

From James S. Hart.....	3 84	
E. P. Dodge.....	10 68	
James O. Knapp	17 05	
F. L. Toppan	6 45	
C. H. Meader.....	36 00	
Stephen Kimball.....	31 03	
David Foss.....	29 72	
William R. Johnson.....	55 58	
E. M. George for D. Johnson.....	8 43	
Charles E. Atkinson	30 10	
George W. Jefts	27 71	
Joseph Little	27 94	
Nathan C. Leighton.....	12 50	
Mrs. F. D. Greeley	25 37	
E. Griffin.....	25 37	
John M. Goodwin	14 19	
Thomas Nelson.....	21 21	
Joseph Cartland.....	1 88	
L. B. Cushing, agent.....	28 54	
Edward W. Pearson....	18 06	
Balch estate	3 20	
<i>Amounts carried forward.....</i>	<i>\$1,434 85</i>	<i>\$3,111 52</i>

<i>Amounts brought forward</i>	\$1,434 85	\$3,111 52
Benjamin F. Poor	55 39	
John J. Noyes, agent	80	
Dr. F. A. Howe.....	67 22	
David Merrill	21 45	
Lewis Greenleaf, agent.....	12 87	
Sewell B. Noyes.....	3 70	
Joseph H. Currier	15 13	
Thomas W. Goodwin.....	42 28	
E. P. Dodge	39 90	
Thomas F. Henry.....	9 07	
E. P. Shaw.....	8 27	
Joseph Williams.....	25 44	
J. C. Stanley.....	39 91	
Thomas Mackinney.....	12 00	
George W. Marston.....	27 92	\$1,816 20
Appropriation for stone paving	\$2,300 00	
		\$7,227 72
Amount overdrawn and transferred from Incidentals to balance account.....	257 81	
		\$7,485 53

EXPENDITURES ON HIGHWAYS

Authorized by the Committee on Highways.

JANUARY.

D. C. Batchelder, services as superintendent of highways.	\$45 00
Daniel Creedon, services on highway.....	12 00
Patrick Murphy,	

<i>Amount brought forward</i>	\$131 50
Edward Powers, services on highway.....	50
Daniel Cronan, ".....	50
Thurston & Colman, lumber.....	4 15
E. H. & G. J. George, labor and stock.....	4 92
Thomas P. Mackinney, 2 baskets.....	1 30
Daniel Crowley, 180 loads of gravel.....	14 40
Paul A. Merrill, salt and snow shovel.....	81
Hamilton Haynes, stock and labor.....	19 83
A. D. Russell, groceries.....	1 02
	\$178 93

FEBRUARY.

D. C. Batchelder, services as superintendent of highways..	\$45 00
Dennis Foley, 3 days' labor.....	3 00
Edmund Murphy, shoveling paths.....	3 00
W. S. Purington, work on highways.....	8 00
	\$59 00

MARCH.

D. C. Batchelder services as superintendent of streets.....	\$50 00
Patrick Murphy, services as laborer.....	4 30
John Hale, ".....	4 60
Daniel Cronan, ".....	4 30
Dennis Lynch, ".....	4 30
Patrick Niland, ".....	7 05
Thomas Ryan, ".....	4 20
John Buckley, ".....	4 50
Edward Powers, ".....	4 00
Daniel Creedon, ".....	1 00
William Porter, jr., for 4 teams and two days on highways	22 00
W. O. Evans, labor and stock.....	1 60
Edmund Murphy, shoveling snow.....	3 00
	\$114 85

APRIL.

D. C. Batchelder, services as superinteneent of highways..	\$50 00
Patrick Niland, services on highway.....	4 00
John Hale, ".....	2 00
Patrick Murphy, ".....	2 00
Daniel Cronan, ".....	1 50
<i>Amount carried forward</i>	\$59 50

<i>Amount brought forward</i>	\$59 50
Dennis Lynch, services on highway	2 00
Thomas Ryan, "	1 75
Edward Powers, "	3 30
Daniel Creedon, "	1 00
Michael Donahoe, "	2 30
Edward Murphy, shoveling snow	1 70
W. Porter, dragging snow	15 60
J. M. Greenough, horse and team	2 50
	\$89 65

MAY.

D. C. Batchelder, services as superintendent ..	\$50 00
Patrick Niland, services on highway	22 57
John Hale, "	25 93
Patrick Murphy, "	22 81
Michael Donahoe, "	23 43
Aaron Carson, "	21 56
John Buckley, "	15 00
Dennis Lynch, "	21 93
Jeremiah Shehan, "	15 31
Daniel Cronan, "	17 81
Thomas Ryan, "	17 81
S. H. Thurlow, shovels and forks	17 42
Daniel O. Connell, cleaning street crossings	75
Thurston & Colman, lumber	2 38
E. H. & G. J. George, weighing	1 52
Rufus H. Wigglesworth, shoveling snow	60
Joseph H. Currier, laying 356 feet of gutter	21 36
	\$298 19

JUNE.

D. C. Batchelder, services as superintendent of highways ..	\$50 00
J. B. Pritchard, seizing	20
Patrick Murphy, services on highways	33 13
Johh Hale, "	33 75
Michael Donahoe, "	33 75
Aaron Carson, "	33 13
John Buckley, "	32 50
<i>Amount carried forward</i>	\$216 46

<i>Amount brought forward</i>	\$216 46
Dennis Lynch, services on highways.....	33 13
Jeremiah Shehan, “	31 25
Daniel Cronan, “	32 50
Thomas Ryan, “	33 13
Patrick Niland, “	28 75
	\$375 22

JULY.

D. C. Batchelder, services as superintendent of highways..	\$50 00
John Hale, services on highways.....	21 88
Patrick Murphy, “	28 13
Michael Donahoe, “	26 25
Aaron Carson, “	26 87
John Buckley, “	20 00
Dennis Lynch, “	28 13
Jeremiah Shehan, “	28 13
Daniel Cronan, “	28 13
Thomas Ryan, “	28 13
Patrick Niland, “	28 13
William Carroll, “	16 25
Daniel Quill, “	16 25
Michael Crowley, “	16 25
Dennis Dineen, “	16 25
John Mahoney, “	3 12
Hugh McGlew, repairing picks.....	19 13
	\$401 03

AUGUST.

D. C. Batchelder, services as superintendent of highways..	\$50 00
Patrick Murphy, services on highway	25 94
John Hale, “	22 81
Michael Donahoe, “	24 69
Aaron Carson, “	25 94
John Buckley, “	24 06
Dennis Lynch, “	25 94
Jeremiah Shehan, “	26 56
Daniel Cronan, “	26 56
Thomas Ryan, “	25 31
<i>Amount carried forward</i>	\$277 81

<i>Amount brought forward</i>	\$277 81
Patrick Niland, services on highways	26 56
Rufus H. Wigglesworth, labor with team ...	3 00
Thomas H. Lunt, work on highways	88 75
Thomas P. Mackinney, three pick axes and three plow points	5 40
	\$401 52

SEPTEMBER.

D. C. Batchelder, services as superintendent of highways..	\$50 00
Patrick Murphy, work on highway	36 25
John Hale, "	36 25
Michael Donahoe, "	36 25
Aaron Carson, "	31 25
John Buckley, "	36 25
Dennis Lynch, "	36 25
Jeremiah Shehan, "	25 00
Daniel Cronan, "	36 25
Thomas Ryan, "	35 00
Patrick Niland, "	31 87
Francis Connors, "	11 25
Edward Powers, "	10 00
Patrick Divon, "	1 25
Joseph C. Batchelder, "	26 87
P. M. Lougee, work on bridge	2 75
Hattie M. Morton, 158 loads of gravel	9 48
Blake & Noyes, shelacing pail	25
Joseph M. Greenough, horse and buggy....	3 50
David Smith, 189 loads of gravel	11 34
Amos K. Silloway, 588 loads of gravel...	35 28
	\$502 59

OCTOBER.

D. C. Batchelder, superintendent of highways	\$50 00
Patrick Murphy, services on highways	25 94
John Hale, "	25 94
Michael Donahoe, "	25 94
Aaron Carson, "	3 75
John Buckley, "	21 25
Dennis Lynch, "	24 06
<i>Amount carried forward</i>	\$176 88

<i>Amount brought forward</i>	\$ 176 88
Daniel Cronan, services on highway....	25 94
Thomas Ryan, ".....	12 50
Patrick Niland, ".....	25 94
Francis Connors, ".....	24 68
Edward Powers, ".....	24 06
Joseph C. Batchelder, ".....	15 62
Edward E. Bartlett, hauling gravel....	10 00
James M. Woods, 45 pounds of wrought iron grate.	4 50
John Hoey, labor on Wesley street.....	8 00
Frank Collins, paving Star alley....	20 62
Hugh McGlew, labor on iron work....	32 30
	\$381 04

NOVEMBER.

D. C. Batchelder, services as superintendent of highways..	\$50 00
Patrick Murphy, services on highways.....	26 25
John Hale, ".....	30 00
Michael Donahoe, ".....	29 37
John Buckley, ".....	30 00
Dennis Lynch, ".....	15 62
Daniel Cronan, ".....	29 37
Thomas Ryan, ".....	30 00
Edward Powers, ".....	29 37
Francis Connors, ".....	28 12
Joseph C. Batchelder, ".....	2 81
Trueworthy C. Pike, teaming	50
C. C. Stockman, use of horse and buggy	75
Stephen H. Thurlow, hardware.....	4 11
Joseph H. Currier, repairing pavements.....	6 65
William Porter, jr., sprinkling turnpike	10 00
Daniel Cogger, repairing bridge	5 00
John Currier, jr., white pine timber.....	17 81
T. K. Bartlett, work on road.....	6 75
	\$352 48

DECEMBER.

D. C. Batchelder, services as superintendent	\$50 00
Patrick Murphy, services on highways	25 00
<i>Amount carried forward</i>	\$75 00

<i>Amount brought forward</i>	\$75 00
John Hale, services on highways	25 62
Michael Donahoe, "	25 62
John Buckley, "	24 37
Daniel Cronan, "	26 25
Thomas Ryan, "	25 00
Patrick Niland, "	26 87
Edward Powers, "	25 00
Francis Connors, "	23 12
Joseph C. Batchelder, "	18 75
Dennis Lynch, "	10 93
Thomas P. Mackinney, two crow bars and plow points....	5 82
S. H. Rundlett, use of jigger'	1 50
Moses L. Chase, shoveling snow	4 70
J. A. Adams, use of team.....	6 75
Hugh McGlew, repairing tools, etc.....	11 88
John B. Pritchard, wire rope and spun yarn.....	38
E. H. & G. J. George, labor and stock.....	9 11
Moses M. Ross, three gals. of kerosene	42
D. M. Felch, putting up street signs	2 50
Frank Collins, labor paving gutter	12 50
	<u>\$362 09</u>

EXPENDITURES FOR SIDEWALKS AND EDGESTONES.

JANUARY.

E. P. Dodge, allowance on sidewalk	\$6 00
Clarence A. Currier, services on sidewalk.....	16 50
Henry L. Piper, 1 1-2 day's labor.....	3 00
Paul A. Merrill, setting 24 feet of edgestones.....	2 92
	<u>\$28 42</u>

MARCH.

Davis & Littlefield, labor and irons for gutter crossings....	\$ 5 65
James O. Knapp, bricking sidewalk.	16 03
S. H. Rundlett, use of jigger 25 days	12 50
William Porter, jr., labor with horses.....	4 50
John A. Greeley, setting edgestone.....	40 88
Davis & Littlefield, services rendered.	20 12
	<u>\$99 68</u>

APRIL.

C. H. Meader, setting edgestones.....	\$9 60
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JUNE.

James J. Vernon, granite.....	\$200 08
Oliver Longval, making crossing.....	2 50
Alexander D. Brown, cash paid W. H. Toppan.....	7 40
William H. Swasey, laying brick walk	60 30
	\$270 28

JULY.

James J. Vernon, granite paving blocks.....	\$286 14
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AUGUST.

George D. Thurlow, jr., setting edgestone	\$21 24
Oliver Longval, street crossings	23 00
David Foss, 54 yards brick paving.....	16 20
Rufus Morrison, setting edgestone.....	20 12
James W. Welch, laying brick sidewalk.....	6 60
	\$87 16

SEPTEMBER.

James J. Vernon, hammered edgestone.....	\$190 02
W. & M. O'Connor, crossings for gutter.....	36 00
E. Donahoe, work on crossings.....	22 50
Frank Collins, work on edgestone.....	57 05
T. H. Lunt, ".....	108 65
George D. Thurlow, jr., resetting edgestone	46 06
Charles W. Piper, setting edgestone.....	10 12
George W. Jefts, brick paving for 3999 yds. of sidewalk..	11 90
	\$482 30

OCTOBER.

Thomas G. Dodge, services on edgestone	\$ 4 25
David Smith, bricks	123 45
Thomas Ronan, jr., labor on paving	40 62
John H. Curran, repairing bridges, etc	9 65
F. A. Howe, for brick paving.....	45 28
Rufus Morrison, setting edgestone.....	13 34
George D. Thurlow, jr., work on gutter.....	7 50

<i>Amount carried forward.....</i>	<i>\$244 09</i>
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<i>Amount brought forward</i>	\$244 09
Frank Collins, labor on edgestone....	2 40
Charles E. Atkinson, brick paving	22 45
H. H. Landford, allowance on sidewalk.....	7 80
Joseph Cartland, repairing sidewalk.....	46 47
Thomas H. Lunt, labor on highways	64 37
	\$387 58

NOVEMBER.

Edward F. Manning, stock and labor	\$15 18
Thomas Ronan, jr., repairing crossings	18 75
Amos Coffin, brick paving on Orange street.....	21 93
George D. Thurlow, jr., paving 20 square yards.....	5 00
David Smith, bricks	4 80
William Porter, jr., use of jigger	50
	\$66 16

DECEMBER.

Thurston & Colman, lumber	\$ 6 62
Hugh McGlew, bolts, irons, etc ..	20 85
Davis & Littlefield, labor and stock.....	15 35
T. H. Lunt, labor on Water street.....	7 75
John A. Greeley, setting stone.....	8 40
Hamilton Haynes, repairing picks	16 15
William S. Coffin, wharfage of stone.....	28 00
	\$103 12

EXPENDITURES FOR STONE PAVING.

JUNE.

James J. Vernon, granite for edgestone.....	\$936 33
James J. Vernon, "	255 47
	\$1,191 80

JULY.

James J. Vernon, edgestone and granite blocks.....	\$270 89
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AUGUST.

Cornelius Murphy, service on stone paving.....	\$10 62
Thomas Carey, " "	10 62
<i>Amount carried forward</i>	\$21 24

<i>Amount brought forward</i>	\$21 24	
Daniel Buckley, services on stone paving	10 31	
Daniel Lucy and Tim. Sweeney, service on stone paving	8 44	
Patrick Dickson, services on stone paving	9 69	
John Lynch, " "	9 69	
Cornelius Lyons, " "	7 81	
Timothy Moynihan, " "	9 06	
John Kelleher, " "	9 06	
Timothy Haley, " "	8 75	
Cornelius Doyle, " "	8 75	
Humphrey Coffey, " "	8 75	
Joseph C. Batchelder, " "	8 75	
James Carrigan, " "	6 87	
John McCarty, " "	6 87	
James Coffey, " "	3 75	
		<u>\$137 79</u>

SEPTEMBER.

James J. Vernon, blocks for paving	\$147 40
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DECEMBER.

Hamilton Haynes, repairing picks	\$ 2 25
John Turner & Co., laying pavement	336 50
William S. Coffin, wharfage of stone	61 87
	<u>\$400 62</u>

RECAPITULATION.

Bills paid in January on Highways	\$178 93	
" February "	59 00	
" March "	114 85	
" April "	89 65	
" May "	298 19	
" June "	375 22	
" July "	401 03	
" August "	401 52	
" September "	502 59	
" October "	381 04	
" November "	352 48	
" December "	362 09	\$3,516 59
<i>Amount carried forward</i>		<u>\$3,516 59</u>

<i>Amount brought forward</i>				\$3,516 59
Bills paid in January on sidewalks and edgestones				\$28 42
"	March	"	"	99 68
"	April	"	"	9 60
"	June	"	"	270 28
"	July	"	"	286 14
"	August	"	"	87 16
"	September	"	"	482 30
"	October	"	"	387 58
"	November	"	"	66 16
"	December	"	"	103 12
				<u>\$1,820 44</u>
Bills paid in June on stone paving.....				\$1,191 80
"	July	"	.....	270 89
"	August	"	.....	137 79
"	September	"	.....	147 40
"	December	"	.....	400 62
				<u>\$2,148 50</u>
Total expenditures for year ending December 18, 1880				\$7,485 53

INCIDENTAL DEPARTMENT.

Appropriation\$2,000 00

CREDITS.

From town of Newbury for its proportion of expense of locating town line.....\$	10 50	
From town of West Newbury, for its propor- tion of expense of locating town line	9 50	
From back taxes paid with interest.....	4 99	
From state of Massachusetts, account of corporation tax of previous years...	2 10	
From sale of books, "Washington Statue"	13 49	
" "Cushing Memorial"	41 00	
From city clerk.....	64 00	
Non-resident bank tax.....	2,206 89	
Liquor licenses, 3-4 of amount received in 1880..	5,850 00	
From state of Massachusetts, account of cor- poration tax of 1880.....	5,856 81	
From state aid uncalled for.....	6 00	\$14,065 28

Trans. from appropriation for Lighting Streets\$	66 89	
" " Salaries	172 84	
" " Fuel	1,100 73	
" " Public Library	129 32	
" " Interest	92 36	
" " Board of Health	200 00	
" " Stone Paving.	151 50	\$1,913 64
		<u>\$17,978 92</u>

Amount carried forward.....\$17,978 92

<i>Amount brought forward</i>	\$17,978	92
Expenditures as per detailed statement below	\$5,692	51
Transferred to Poor department.....	1,047	48
" school department.....	40	23
" Fire department.....	718	01
" Highway department.....	405	07
" Public Property.....	2,531	51
" Police department.....	807	82
" Bridges and culverts.....	851	89
" Bromfield fund.....	1	24
" Water works.....	1,150	75
" Widening Merrimac street..	406	75
" Sidewalks and edgestones...	4	24
Abatement of taxes of 1874-75-76-77-78..	1,011	53
Undrawn, transferred to sinking fund to balance account	\$3,309	89

EXPENDITURES

Authorized by the City Council.

JANUARY.

Colby, Coombs & Co., advertising.....	\$46	75
Joseph H. Currier, jr., building reservoir ..	418	51
Albert Russell & Sons, pump leathers and grate.....	43	49
Thurston & Colman, lumber.....	53	50
George H. Steyens, services rendered board of health . . .	50	00
John F. Lee, services as fish warden..	5	00
Joseph M. Tappan, services at election.....	7	00
City treasurer, making reports and cash paid	65	25
John N. Pike, trial of Samuel Hamer	10	00
Eben P. Allen, services at ward room ..	14	50
Stephen R. Fox, ringing bell....	1	00
John W. Sargent, lighting and cleaning Market hall.....	16	00
Sewell B. Noyes, chairs and cord.....	2	40
J. H. & J. Hall, varnish and paint	1	30
Isaac P. Noyes, P. M., box rent	1	00
Henry R. Weitzel, returns of deaths; 53 for 1879	13	25
Charles E. Ash, washing ward room floor, etc..	7	25
George W. Clark, ink, blotting paper, etc.....	8	20
George Lucy, horse and carriage	3	50
John B. Porter, services at ward room	8	50
<i>Amount carried forward</i>	\$776	40

<i>Amount brought forward</i>	\$776 40
John J. Currier, for L. W., services for Cushing memorial	5 00
C. J. Brockway, expense to Boston	7 00
Joseph C. Lunt, tolling bell and services at election	12 25
Eagle Printing Co., printing	5 75
George W. Snow, examination of applicants	24 00
Gillett & Co.'s Express, for expressage	11 30
F. W. Hale, services as inspector	4 00
George E. Donnell, ringing bell	6 00
Martin M. Woods, services as inspector	2 00
Wm. H. Noyes, jr., " "	4 00
E. F. Lee, " "	4 00
Albert R. Patten, " "	2 00
William J. Creasey, " warden	4 00
Joseph G. Flanders, " "	4 00
D. L. Withington, " "	4 00
C. W. Johnson, " inspector	2 00
D. A. Pingry, " "	4 00
Clarence I. Marsh, " "	4 00
George A. Coffin, " "	2 00
George H. Smart, " "	4 00
R. H. Hooper, " clerk	4 00
Samuel J. Ford, " warden	4 00
Charles J. Cutter, " "	4 00
Alpheus G. Knight, " inspector	4 00
Horace Gould, " "	2 00
	<u>\$909 70</u>

FEBRUARY.

Wm. H. Noyes, jr., services as inspector	2 00
Charles J. Cutter, " "	2 00
H. H. Landford, " clerk	6 00
W. H. Whitmore, jr., " "	2 00
William H. Welch, " inspector	2 00
R. H. Hooper, " "	2 00
Oliver P. Townsend, " "	2 00
Martin M. Woods, " "	2 00
James M. Jackman, " ward clerk	2 00
A. R. Nutter, " inspector	4 00
Charles E. Ash, cleaning floor, etc	5 00
<i>Amount carried forward</i>	<u>\$31 00</u>

<i>Amount brought forward</i>	\$31 00
Jacob H. Young, services as warden.....	4 00
James W. Welch, ringing bell.....	2 00
Clarence I. Marsh, services as inspector.....	2 00
Samuel J. Ford, " warden.....	2 00
Eugene F. Lee, " inspector.....	2 00
C. J. Brockway, " warden.....	2 00
W. H. P. Howard, " inspector.....	2 00
William J. Creasey, " warden.....	2 00
W. H. T. Dodge, " inspector.....	4 00
Sam E. Sargent, " ".....	6 00
William S. Goodwin, " ward clerk.....	6 00
Moses E. Cook, " inspector.....	2 00
Isaac Poor, jr., " ".....	2 00
A. G. Knight, " ".....	2 00
William Collins, " ".....	2 00
Charles R. Sargent, services on weights and measures . . .	100 00
Enoch Goodwin, ringing bell....	6 50
W. C. Putney, expressage.....	3 00
James W. Welch, returning of deaths.	3 50
Alfred Wheeler, ".....	1 00
Peter Cusack, ".....	11 25
Jacob H. Young, amount of bill	49 10
C. W. Tuttle, services for Cushing memorial.....	50 00
Lovett's Express, expressage.....	50
Amos Noyes, pass to Boston, etc.....	5 00
City treasurer, cash paid Milton C. Johnson	9 50
S. H. Safford & Co., returning deaths.....	45 75
	<u>\$358 10</u>

MARCH.

William Porter, jr., use of jigger.....	\$15 00
Thomas Humphreys, services as inspector.....	2 00
Eben P. Allen, " ".....	2 00
Eben B. Whitmore, " ".....	2 00
Joel E. Lancy, " ".....	2 00
George A. Pearson, " clerk.....	2 00
John W. Sargent, " clerk.....	4 00
<i>Amount carried forward</i>	<u>\$29 00</u>

<i>Amount brought forward</i>	\$29 00
Frank B. Ives, services as inspector.....	4 00
James Anderson, " warden	2 00
Frank C. Delano, " clerk	2 00
Isaac P. Noyes, P. M., postage stamps.....	4 00
J. Q. Bradish & Co., pencils, etc.....	20 80
Charles H. deRochemont, services as health officer.....	25 00
William H. Huse & Co., 750 copies of Cushing Memorial.....	445 00
T. Y. Crowell, for binding Cushing Memorial, etc	220 77
City clerk, returning births and deaths	189 55
H. T. Crofoot, one blank book	1 75
William H. Huse & Co., advertising and printing.....	325 40
Henry P. Sargent, horse and team hire.....	26 00
Joseph M. Tappan, superintendent of burials, and services as constable	30 50
	\$1,325 87

APRIL.

J. M. Greenough, horse and buggy	\$ 2 00
Horace White, ringing bell.....	2 00
John Connors, "	2 00
H. T. Crofoot, binding reports, etc	25 95
A. R. Nutter, services as inspector	2 00
John B. Porter, services in ward room.....	2 50
Putney's Express, expressage	2 80
James W. Welch, ringing bell.....	2 00
Estate of Nathan Poor, land taken.....	51 17
Isaac P. Noyes, P. M., postage stamps and box rent.....	3 00
Gillett & Co., expressage	6 25
	\$101 67

MAY.

L. S. Learned, 2 1-4 reams paper	\$ 9 00
C. H. Johnson, ink and pencils.....	3 22
Daniel P. Thurlow, ringing bell	2 00
Milton C. Johnson, stationery and books	34 65
S. H. Fowle, Boston Advertiser.....	6 00
George E. Donnell, services as clerk at election.....	4 50
<i>Amount carried forward</i>	\$59 37

<i>Amount brought forward</i>	\$59 37
Charles N. Safford, services as inspector	2 00
Enoch Goodwin, ringing bell	7 00
City treasurer, sundry cash payments ..	32 29
Colby, Coombs & Co., advertising cards, etc	4 50
	<u>\$105 16</u>

JUNE.

City treasurer, postage stamps, expenses to Boston, etc....	\$48 65
Joseph C. Batchelder, labor on burial grounds	14 06
George Harris, "	21 56
Edward Powers, "	15 62
Stephen R. Fox, ringing bell ..	2 50
Alexander Leach, "	2 00
H. T. Crofoot, binding books	27 50
Fairbanks, Brown & Co., scale and weights	17 00
	<u>\$148 89</u>

JULY.

George Harris, labor on burial grounds	\$20 62
Edward Powers, "	18 75
Joseph C. Batchelder, "	17 50
Samuel J. Ford, services as warden	2 00
Luther Carter, " "	4 00
Charles J. Brockway, " "	7 00
William H. Welch, " inspector	2 00
William H. Noyes, jr., "	2 00
John W. Sargent, " "	2 00
Hiram H. Landford, " clerk	2 00
Alpheus G. Knight, " inspector	2 00
Charles E. Ash, removing seats, etc....	3 50
James Anderson, services as warden	2 00
George H. Smart, " inspector	2 00
Roland H. Hooper, " "	2 00
Oliver P. Townsend, " "	2 00
Isaac Poor, jr., " "	2 00
Fred W. Young, " "	4 00
Joseph M. Tappan, superintendent of burial ground	28 00
<i>Amount carried forward</i>	<u>\$125 37</u>

<i>Amount brought forward</i>	\$125 37
William H. Whitmore, jr., services as ward clerk.....	2 00
Eben P. Allen, attendance at ward room.....	2 00
Isaac P. Noyes, P. M., postage stamps.....	7 00
Henry Cook, jr., stationery.....	7 36
George Lucy, horse hire.....	2 50
Thurston & Colman, lumber.....	3 30
Michael Lynch, work on burial ground.....	14 37
	<u>\$163 90</u>

AUGUST

W. C. Putney, expressage.....	\$ 2 90
George Harris, labor on burial ground.....	14 37
Edward Powers, ".....	16 25
Thomas H. Lunt, ".....	7 50
Daniel P. Thurlow, ringing bell.....	3 00
Alexander Leach, ringing bell.....	3 50
F. H. Rundlett, ".....	3 00
Gillett & Co., expressage.....	8 90
Nathaniel Greeley, services as inspector.....	4 00
James W. Welch, ringing bell.....	3 50
Eugene F. Lee, services as inspector.....	2 00
James Connors, ringing bell.....	3 00
Eagle Printing Co., printing.....	19 25
Enoch Goodwin, ringing bell.....	8 50
Joseph C. Lunt, ringing bell, etc.....	13 50
Edmund Smith, services rendered ..	38 00
Charles N. Safford, services as inspector.....	2 00
	<u>\$153 17</u>

SEPTEMBER.

Jacob H. Young, services as warden.....	2 00
O. P. Townsend, " inspector.....	2 00
Wm. H. Noyes, jr., " ".....	2 00
W. H. Whitmore, jr., " ward clerk.....	2 00
Charles H. Lunt, " inspector.....	4 00
Samuel K. Gilman, " ward clerk.....	4 00
John Q. A. Johnston, " inspector ..	2 00
Isaac Poor, jr., " ".....	2 00
Samuel J. Ford. " warden.....	2 00
<i>Amount carried forward</i>	<u>\$24 00</u>

<i>Amount brought forward</i>	\$24 00
W. H. F. Dodge, services as warden	4 00
William H. Welch, " "	2 00
Sam E. Sargent, services at election.....	4 00
William S. Goodwin, services as ward clerk	4 00
William J. Creasey, " warden.....	4 00
James Anderson, " "	2 00
Charles J. Brockway, " "	2 00
Joseph M. Tappan, distributing bills.....	43 00
City treasurer, cash paid and expenses to Boston.....	42 25
Paul Adams, cash paid....	48 75
Thurston & Colman, cask of lime	1 15
Eben P. Allen, services as janitor	2 00
City collector, tax deeds on property.....	80 78
Stephen R. Fox, ringing bell... ..	4 00
Rockwell & Churchill, printing and advertising.....	15 00
Charles C. Donnell, expenses to Salem	1 80
John B. Porter, services at ward room	4 50
Edward Powers, work on burial ground....	17 50
George Harris, "	20 00
Joseph C. Batchelder, "	2 50
George H. Stevens, petition to widen street.....	2 00
M. C. Teel, printing and advertising	20 00
William H. Huse & Co., printing and advertising.....	374 50
Daniel T. Colby, "	12 75
	<u>\$736 48</u>

OCTOBER.

H. P. Sargent, horse hire	\$17 50
George E. Donnell, ringing bell	8 00
I. P. Noyes, P. M., box rent	1 00
Charles J. Cutter, services as inspector and clerk.....	4 00
Charles N. Safford, services as inspector.....	2 00
H. H. Landford, services as clerk.....	2 00
Henry Cook, jr., school supplies	7 40
Charles E. Ash, tending ward meeting, etc..	4 00
Milton C. Johnson, one ledger.....	15 00
Daniel T. Colby, printing and advertising ...	2 00
	<u>\$61 90</u>

NOVEMBER.

City clerk, cash paid for ink stand	1 00
City treasurer, cash paid for directories	18 00
Nathaniel Pierce, legal opinion in regard to repairing hall . .	50 00
Enoch Goodwin, ringing bell	5 00
W. C. Putney, expressing	2 80
Lot M. Hatch, tax refunded	6 20
S. H. Fowle, Boston Advertiser	7 00
	\$90 00

DECEMBER.

Davis & Littlefield, four blocks at 75c	\$ 3 00
William H. Noyes, jr., services as inspector	2 00
William H. T. Dodge, " "	2 00
Oliver P. Townsend, " "	2 00
Alpheus G. Knight, " "	4 00
George E. Donnell, " clerk of ward	2 50
Arthur G. Pearson, " inspector	2 00
F. W. Young, " "	4 00
Moses E. Cook, " warden	2 00
John F. Hall, " inspector	2 00
Charles J. Brockway, expenses to Boston, etc	5 00
Luther Carter, services as warden	4 00
Rufus Sargent, services surveying	12 50
City treasurer, cash paid for postage stamps	20 50
George W. Snow, examination of applicants	15 00
J. C. Brock, 6 vote registers	6 00
Edmund C. Smith, lettering and moving stone	1 00
William H. Bayley, expenses to Haverhill	1 50
F. H. Rundlett, ringing bell	1 50
John Becker, engraving seal	12 00
C. H. Johnson, ink and blank books	6 08
Putney's express, expressing	1 25
Charles E. Ash, services at election	5 25
John A. Greeley, meeting harbor commissioners	10 00
John N. Pike, services at court	89 65
John F. Lee, services as fish warden	5 00
Daniel T. Colby, advertising and printing	11 00
<i>Amount carried forward</i>	<i>\$232 73</i>

<i>Amount brought forward</i>	\$232	73
A. Leach, ringing bell		50
M. C. Teel & Son, advertising and printing	38	50
Brockway, Donnell & Jackman, making copy valuation list	150	00
Mrs. Catherine Holker, tax abated	4	68
Thomas H. Lunt, tax abated	1	56
William Warner and wife, land taken on corner of bridge road and Merrimac street		50 00
William H. Huse & Co., advertising and printing	159	50
City treasurer, cash paid	55	20
William H. Huse & Co., printing Municipal register	496	00
Edward F. Bartlett, services on Municipal Register	50	00
State of Massachusetts, 1-2 of aid paid for 1879 under chap- ter 252, acts of 1879	298	00
	<u>\$1,536</u>	<u>67</u>

RECAPITULATION.

Bills paid in January	\$	909	70
“ February		358	10
“ March		1,325	87
“ April		101	67
“ May		105	16
“ June		148	89
“ July		163	90
“ August		153	17
“ September		736	48
“ October		62	90
“ November		90	00
“ December		1,536	67
Total expenditures for year ending December 18, 1880	\$	5,692	51

PUBLIC PROPERTY.

Appropriation\$4,500 00

CREDITS.

From F. J. Welch, one gray horse sold.....	\$ 67 50	
W. J. Hale, for desk	7 00	
R. M. Perley, rent of Market street landing to October 1, 1884.....	20 00	
Market house and cellar.....	400 00	
Burial lots.....	40 00	
City hall	871 25	\$1,405 75
Balance overdrawn, transferred from Incidentals to balance account.....		\$2,531 51
Expenditures.....		\$8,437 26

EXPENDITURES

Authorized by the Committee on Public Property.

JANUARY.

Alfred O. Lowell, one month's services as teamster.....	\$35 00
Wm. T. Thompson, " "	30 00
Wilbur S. Porter, " "	30 00
Abram Pray, jr., " "	35 00
Clarence E. Goodwin, " "	35 00
Charles H. Smith, building closets and stairway.....	69 00
George P. Bishop, work on harness, etc	4 85
A. D. Russell, groceries.....	4 98
John H. Curran, stock and labor	9 35
Blake & Noyes, paint and glass	23 06
B. H. Jaques, soap.....	4 00
Todd & Brown, repairing pump	1 75
Paul Titcomb, grain.....	15 40
Thurston & Colman, lumber	67 06
A. D. Woods, glass and paint.....	8 14
Edmund Smith, establishing line between land of city and Thomas Capers	2 00
<i>Amount carried forward</i>	<i>\$374 59</i>

<i>Amount brought forward</i>	\$374 59
Newburyport Rifle Club, use of range and marker's services	8 00
Joseph W. Landford, services on sick horse.....	42 00
Frank G. Harrison, work on harnesses, etc.....	35 85
Thomas P. Mackinney, lead pipe and snow shovels.....	6 85
P. M. Lougee, seat for platform runners.....	5 50
Clarence A. Currier, repairing brick work.....	4 00
Hermann Castlehun, winding city clocks.....	27 00
John Sumner, grates to furnace and lead pipe ..	4 07
S. A. McConnell, liniment and allum.....	5 88
M. M. Ross, soap and ginger	4 73
T. H. Lunt, plastering and bricking closet ...	4 50
Albert Russell & Sons, grate and iron bars..	1 76
James M. Woods, shoeing horses.....	1 50
Hamilton Haynes, repairing cart wheels, etc.	25 76
John C. Kimball, lumber	36 95
William Holker & Co., stock and labor.....	43 37
Moses Merrill,	9 50
Gerrish & Goodwin,	6 59
E. H. & G. J. George, shoeing horses and work on teams..	43 71
J. C. Stanley, bolts and nails.....	1 45
John W. Sargent, services as janitor.....	20 00
Sewell B. Noyes, for chairs.....	7 00
	\$720 56

FEBRUARY.

Wilbur S. Porter, services as teamster.....	\$30 00
Clarence E. Goodwin,	35 00
Wm. T. Thompson,	30 00
Alfred O. Lowell,	35 00
John Moore,	23 70
Abram Pray, jr.,	11 30
John H. Balch, curtain fixtures and tassels.....	7 15
George P. Bishop, blankets and brushes	18 30
Plummer & Balch, groceries.....	5 28
James M. Woods, shoeing horses.....	1 50
Hunt & Davis, pitchers and soda.....	1 62
Edward Chase, setting glass.....	8 80
Torrey & Jameson, paint and glass.....	11 94

Amount carried forward.....\$219 59

<i>Amount brought forward</i>	\$219 59
Moses Merrill, laying carpet	1 50
Charles W. Cook, services rendered	10 96
Hector Little, stock and labor	8 95
John A. Fuller, rescuing computation	9 00
Jackman & Griffin, paint and glass	9 44
F. E. Cutter, agent, "	3 18
John H. Curran, blacksmithing	56 04
George H. Plumer, blankets for horse	10 50
Sewell B. Noyes, mattrass and bedstead	5 00
	\$334 16

MARCH.

Alfred O. Lowell, services as teamster	\$35 00
Clarence E. Goodwin, "	35 00
John Moore, "	35 00
Wilbur S. Porter, "	30 00
William T. Thompson, "	30 00
E. H. & G. J. George, shoeing horses ; bolts, etc	21 35
George P. Bishop, repairing harness, etc	8 65
Paul Titcomb, grain	14 9
W. A. Davis & Son, making boot for horses	75
Otis Mann, to 1 1-4 lbs. of foot dressing.	1 25
John E. Bayley, repairing floor, cash paid, etc	10 81
William Holker & Co., cementing furnace at City hall	11 56
Hunt & Davis, window brush and mop stick	3 95
C. H. Smith, laying floor in marshal's office	10 00
S. Levy & Co., bagging and box	1 75
Eli Lamprey, labor and stock	3 44
T. J. Bruce, one day's work at engine house	2 00
Edward Donahoe, blacksmithing	15 00
C. R. Sargent, labor and stock	3 20
Davis & Littlefield, carpentering done at City hall	1 75
F. E. Cutter, agent, painting at Forrester street school house	140 00
	\$415 36

APRIL.

Alfred O. Lowell, services as teamster	\$35 00
Wm. T. Thompson, "	30 00
<i>Amount brought forward</i>	
	\$65 00

<i>Amount brought forward</i>	\$65 00
John Moore, services as teamster	35 00
Wilbur S. Porter, "	30 00
Clarence E. Goodwin, "	35 00
J. B. Knight, grain	100 55
W. O. Evans, labor on Kelley school house	5 51
Green Davis, window glass	21 40
Blake & Noyes, labor and paint	23 77
Charles H. Smith, 3 3-4 days' work	7 50
N. W. Hurd, 24 feet of moulding	1 44
Bayley & Perkins, lumber	82 14
Charles W. Cook, labor on school house	42 25
Poor department, hay	84 25
E. S. Sweetser, carpet and lining	11 89
Thomas P. Mackinney, hardware	11 56
Edwin Currier, three days' labor	5 25
E. W. Gerrish, hinges, hooks and bolts	4 50
J. M. Greenough, horse hire	2 75
	\$569 76

MAY.

Wilbur S. Porter, services as teamster	\$33 33
John Moore, "	35 00
Alfred O. Lowell, "	31 67
Clarence E. Goodwin, "	35 00
William T. Thompson, "	30 00
Hector Little, load of litter	10 35
J. B. Knight, grain	30 60
Paul Titcomb, grain	23 50
Stephen H. Thurlow, shovel, hoes, etc.	22 15
John H. Curran, shoeing horses, etc	13 20
George P. Bishop, repairing harnesses, etc.	31 10
E. H. & G. J. George, shoeing horses	19 60
Albert Cheever, expenses to Gloucester	3 00
John P. Evans, " "	3 00
John D. Hunt, 1 day's labor	2 00
N. Marden, horse hire	2 00
John H. Balch, curtain fixtures	5 28
Thurston & Colman, lumber	9 92

Amount carried forward\$340 70

<i>Amount brought forward</i>	\$340 70
Joseph W. Evans, plans of alteration in hall	28 00
Rowell & O'Brien, jigger and paint	110 00
	\$478 70

JUNE.

John P. Young, services as teamster	\$35 00
Alfred O. Lowell, "	35 00
John Moore, "	40 00
Wilbur S. Porter, "	40 00
Clarence E. Goodwin, "	29 68
Arthur G. Warner, "	9 03
Wm. F. Stanwood, "	1 29
American Spiced Food Co., 8 bags spiced food	36 00
J. B. Knight, grain	38 65
Edward F. Manning, shoeing horses, etc	16 40
Paul Titcomb, grain	17 60
Willard J. Hale, expenses to Boston, etc	6 15
J. H. & J. Hall, painting	22 92
Thomas Coffey, repairing fences	10 00
Charles R. Sargent, repairing locks, etc	19 22
Daniel Danforth, care of pumps	2 00
Thomas G. Dodge, services rendered	36 75
William Hunt, "	22 00
	\$417 69

JULY.

Wilbur F. Porter, services as teamster	\$40 00
John Moore, "	40 00
William F. Stanwood, "	40 00
John P. Young, "	35 00
Alfred O. Lowell, "	35 00
E. H. & G. J. George, shoeing horses	25 85
William Besoom, gray mare	225 00
John H. Curran, repairing wagon, etc	24 78
George P. Bishop, repairing harnesses, etc	26 00
Paul Titcomb, grain	12 80
Hugh McGlew, shoeing horses, etc	30 60
J. P. Greeley, hauling bricks	75
<i>Amount carried forward</i>	\$535 78

<i>Amount brought forward</i>	\$535 78
J. B. Pritchard, stock and labor.....	2 40
J. E. Came & Co., billiard cloth....	8 75
John W. Sargent, services as janitor.....	12 50
Stephen H. Thurlow, hardware.....	14 35
John A. Cooper, labor and stock	3 50
William Holker & Co., labor and stock.....	16 65
Herrman Castlehun, winding city clock	25 00
Dennis Sughrue, cutting grass.....	1 00
John E. Bayley, labor and stock.....	32 05
C. W. Cook, ".....	50 00
Thurston & Colman, lumber	70 11
Charles L. Ridgway, regulator on furnace.....	30 00
George Harris, services rendered	2 50
Edward Powers, ".....	3 75
	\$808 34

AUGUST.

Paul Titcomb, grain.....	\$16 60
John P. Young, services as teamster	35 00
John Moore, ".....	40 00
Wilbur S. Porter, ".....	40 00
Wm. F. Stanwood, ".....	40 00
Alfred O. Lowell, ".....	35 00
Nathaniel Greeley, cash paid and expenses to Boston.....	13 50
D. C. Batchelder, cash paid for hay.....	2 50
Thomas Hennessey, hay.....	93 05
Samuel K. Gilman, painting and gilding clock.....	20 00
Torrey & Jameson, painting and glazing.....	6 34
Mariner P. Goodwin, work on school house	13 70
Charles H. Meader, work on building.....	17 90
Thomas Coffey, services rendered.....	6 00
Todd & Brown, repairing pumps.....	5 75
Jackman & Griffin, setting glass.....	17 90
H. G. Johnson, jr., duster and three brushes.....	2 80
Thomas P. Mackinney, hardware.....	20 99
C. W. Cooke, 23 1-2 days' labor.....	58 75
G. P. Bishop, one pair of team harnesses.....	84 00
	\$569 78

SEPTEMBER.

William H. Dow, services as teamster.....	\$ 9 03
Wilbur S. Porter, ".....	40 00
William F. Stanwood, ".....	40 00
John Moore, ".....	40 00
John P. Young, ".....	35 00
Alfred O. Lowell, ".....	35 00
George P. Bishop, repairing harness, etc.....	17 70
E. H. & G. J. George, blacksmithing.....	46 70
John T. Butman, labor on cart.....	6 08
W. & M. O'Connell, labor on cart.....	4 10
P. M. Lougee, ".....	39 75
J. B. Knight, grain.....	110 85
Paul Titcomb, grain.....	12 70
Thomas Hennessey, hay.....	83 10
S. Coker, paint and oil.....	22 81
Lord Brothers, tassels and shades.....	40 84
Marston & Morse, labor and stock.....	14 19
Raynal Dodge, work on school house.....	19 15
Joseph Torrey, paint and oil.....	70 16
Jackman & Griffin, labor and stock.....	65 00
Newburyport Rifle Club, use of rifle range, etc.....	4 00
Blake & Noyes, paint and oil.....	61 66
Thomas B. Thomas & Co., work on school house.....	13 75
Charles L. Huse, painting.....	68 55
Nathaniel Currier, whitewashing hall....	30 00
Albert F. Young, hardware.....	110 30
C. E. Currier, labor and stock.....	44 07
John Chamberlain, services rendered.....	10 36
Stephen S. Pike, ".....	1 25
Henry McElwin, slating.....	55 50
Joseph M. Greenough, horse hire.....	3 25
Thurston & Colman, lumber.....	118 87
John B. Porter, labor in ward room.....	10 00
James P. Plummer, teaming....	1 00
Thomas Coffy, cleaning around school house.....	1 25
Hunt & Davis, groceries.....	6 95
John C. Kimball, lumber.....	187 17
C. W. Cook, labor and stock.....	125 62
William Holker & Co., labor on iron work.....	115 21
	<u>\$1,720 92</u>

William F. Stanwood, services as teamster.....	\$40 00
John Moore,	40 00
Wilbur S. Porter,	40 00
Alfred O. Lowell,	35 00
John P. Young,	35 00
Edward F. Manning, repairing wagon and shoeing.....	7 65
American Spiced Food Co., 8 bags spiced food	49 00
Hugh McGlew, horse shoeing, etc.....	49 34
Paul Titcomb, grain	13 35
Patrick Moynihan, work with team.....	60 00
George P. Bishop, repairing harness, etc.....	23 05
William Porter, jr., use of teams.....	14 75
R. C. McConnell, teaming rocks	75
Joseph Torrey, paint and varnish.....	29 34
James P. Greeley, teaming from City hall to grave yard...	1 00
<i>Amount carried forward.....</i>	<i>\$438 23</i>

<i>Amount brought forward</i>	\$438 23
Stephen H. Thurlow, hardware.....	32 59
Charles W. Cook, labor on school house.....	31 25
George D. Thurlow, jr., labor on school house ...	2 50
C. H. Meader, labor and stock	10 45
Moses Merrill, repairing chairs.....	8 50
Winthrop O. Evans, labor and stock.....	25 00
Blake & Noyes, paint and glass ...	11 39
J. C. Stanley, bolt and washers	93
Bayley & Perkins, lumber	105 80
Maurice P. Goodwin, cleaning clocks....	5 50
C. C. Stockman, one tub.....	90
Sewell B. Noyes, furniture.....	40 30
	\$713 34

DECEMBER.

John P. Young, services as teamster	\$35 00
Wilbur S. Porter,	40 00
Wm. F. Stanwood,	40 00
Alfred O. Lowell,	35 00
John Moore,	40 00
Thomas G. Dodge, labor on the mall.....	9 70
John H. Curran, shoeing horses	33 93
William C. Plummer, 5 boxes of spiced food.....	3 75
William H. Toppan, mason work done at school house....	4 50
Hamilton Haynes, labor and stock.....	38 73
George P. Bishop, repairing harness.....	5 75
John Sumner, repairing roof, etc.....	48 95
Blake & Noyes, paint and oil	57 85
E. H. & G. J. George, shoeing horses	15 69
F. E. Cutter, agent, 20 lights of glass and 5 lbs. of putty	3 02
Isaac Poor, nails and brooms.....	21 03
Paul Titcomb, grain	13 70
S. H. Rundlett, horse and man on hose carriage	7 50
Gerrish & Goodwin, labor and stock	16 26
Frank Collins, stock and labor	116 66
J. Chamberlain, two coal hods	2 30
S. H. Safford & Co., repairing table	5 00
Thurston & Colman, lumber	39 28

Amount carried forward\$683 60

<i>Amount brought forward</i>	\$683 60
Charles H. Smith, 62 keys.....	9 30
George A. Pike, repairing pump, etc.....	29 25
John E. Bayley, services rendered.....	59 42
Lord Brothers, 22 yds. curtain cord.....	44
Gowen Dockum, use of land.....	5 00
C. R. Sargent, labor and stock.....	13 90
Moses M. Ross, groceries.....	5 35
Jackman & Griffin, stock and labor.....	29 70
A. D. Woods, paint and oil.....	60 40
William Holker & Co., labor on stoves, etc.....	43 86
George L. Jackman, labor on furnace, etc.....	7 19
J. H. & J. Hall, glass and putty.....	84 30
Nathaniel Currier, labor on school house.....	5 25
H. G. Johnson, jr., feather duster.....	2 25
S. H. Thurlow, nails and locks.....	5 51
Thomas P. Mackinney, hardware.....	13 26
W. O. Evans, labor and stock.....	6 32
Eli Lamprey,	24 99
J. W. Evans & Co., repairing desk, etc.....	22 40
Hugh McGlew, irons for bridges, etc.....	11 70
Davis & Littlefield, cutting posts.....	4 00
J. M. Greenough, use of horse and team.....	1 00
	<u>\$1,128 39</u>

RECAPITULATION.

Bills paid in January.....	\$ 720 56
“ February.....	334 16
“ March.....	415 36
“ April.....	569 76
“ May.....	478 70
“ June.....	417 69
“ July.....	808 34
“ August.....	569 78
“ September.....	1,720 92
“ October.....	560 26
“ November.....	713 34
“ December.....	1,128 3

Total expenditures for year ending December 18, 1880..\$8,437 26

COST OF KEEPING CITY TEAMS.

Items charged to the account of Public Property.

Bills paid in January	\$361 05
“ February	202 75
“ March	211 90
“ April	354 68
“ May	402 10
“ June	296 45
“ July	537 78
“ August	399 65
“ September	520 01
“ October	278 00
“ November	396 64
“ December	380 81
	<u>\$4,141 82</u>
Less cash paid for horse purchased in July... ..	225 00
Total cost of keeping city teams to December 18, 1880..	<u>\$4,116 82</u>

ESTIMATED EARNINGS OF THE CITY TEAMS,

For the year ending December 18, 1880, not included in the income credited to the account of Public Property.

Highway Department, 625 days, double teams, at \$4.00.	\$2,500 00
“ 321 “ single “ \$3.00.	963 00
Poor Department, 22 1-2 “ double “ \$4.00.	90 00
“ 4 1-2 “ single “ \$3.00.	15 00
Fire Department, 9 “ “ “ \$3.00.	27 00
“ attendance on steamers at fires at \$12.50.	312 50
“ “ hose carriages at \$5.00.	85 00
Public Property, 4 days' work, double teams at \$4.00.	16 00
“ 5 “ single “ \$3.00.	15 00
Bridges and Culverts 1 “ double “ \$4.00.	4 00
Water Commiss'rs, 1 “ “ “ \$4.00.	4 00
	<u>\$4,031 50</u>

POLICE DEPARTMENT.

Appropriation	\$6,500 00
Received from E. F. Bartlett, clerk of police court.....	942 98
Balance transferred from Incidentals to close account...	807 82
Expenditures	\$8,250 80

EXPENDITURES

Authorized by the Committee on Police.

JANUARY.

C. H. deRochemont, services as marshal	\$76 42
John G. Gove, services as patrol	50 87
Daniel Ryan, "	50 87
H. G. Otis, "	75
John H. Worthen, "	1 75
John H. Daniels, "	48 25
John W. Sargent, "	55 72
Ira F. H. Blake, "	50 87
Samuel Estes, "	40 75
Jacob P. Torrey, "	50 00
Moses P. Towne, "	46 37
Edward E. Taylor, "	54 25
Max J. deRochemont, "	25 50
Karl Castlehun, medicines	2 60
George Lucy, horse hire	1 00
George W. Clark, paper and ink	2 25
J. W. Butler, pilot bread	32 46
N. Marden, horse hire	1 00
John B. Porter, services at City hall	18 00
M. M. Ross, groceries	74 81
	\$684 49

FEBRUARY.

C. H. deRochemont, one month's services as marshal. . .	\$79 92
John G. Gove, services as patrol	36 00
Daniel Ryan, "	46 50
<i>Amount carried forward</i>	\$162 42

<i>Amount brought forward</i>	\$162 37
H. G. Otis, services as patrol	6 75
John H. Daniels, "	7 50
John W. Sargent, "	57 75
Ira F. H. Blake, "	46 50
George W. Clark, envelopes and diary	1 15
Jacob P. Torrey, services as patrol.....	46 50
Moses P. Towne, "	35 00
Polland, Alford & Co., buttons for coat.....	3 90
M. J. deRochemont, services as patrol	7 50
Samuel W. Tuck, services as assistant marshal ..	49 86
Albert D. Hale, services as patrol ...	39 00
Charles W. Page, "	27 38
Edward E. Taylor, "	54 25
James Stanton, "	39 00
	\$584 46

MARCH.

Charles H. deRochemont, services as marshal	\$82 43
Samuel W. Tuck, services as assistant marshal.....	58 33
John W. Sargent, services as patrol.....	63 10
Albert D. Hale, "	50 75
John G. Gove, "	52 50
Charles W. Page, "	38 50
Moses P. Towne, "	43 75
James Stanton, "	50 75
Daniel Ryan, "	27 12
Jacob P. Torrey, "	51 62
Ira F. H. Blake, "	52 50
Edward E. Taylor, "	50 75
John H. Daniels, "	8 31
	\$630 41

APRIL.

C. H. deRochemont, services as marshal	\$82 12
Samuel W. Tuck, services as assistant marshal	58 34
Edward E. Taylor, services as patrol	54 25
Albert D. Hale, "	54 25
<i>Amount carried forward</i>	\$248 96

<i>Amount brought forward</i>	\$248 96
Ira F. H. Blake,	54 25
Charles W. Page,	38 50
Moses P. Towne,	54 25
John W. Sargent,	63 00
Daniel Ryan,	27 13
John G. Gove,	54 25
James Stanton,	54 25
H. G. Otis,	1 75
James J. Healey, professional services	2 00
J. W. Butler, pilot bread	27 37
Jacob P. Torrey, services as patrol	54 25
	<u>\$679 96</u>

MAY.

C. H. deRochemont, services as marshal	\$78 92
Samuel W. Tuck, services as assistant marshal	58 33
John W. Sargent, services as patrol	61 60
Charles W. Page,	41 12
Ira F. H. Blake,	50 75
Moses P. Towne,	52 50
James Stanton,	53 37
Albert D. Hale,	53 37
Jacob P. Torrey,	52 50
John G. Gove,	53 37
Edward E. Taylor,	52 50
H. G. Otis,	5 25
Daniel Ryan,	26 25
Henry Cook, jr., stationery	10 88
	<u>\$650 71</u>

JUNE.

C. H. deRochemont, services as marshal	\$79 43
Samuel W. Tuck, services as assistant marshal	58 34
John W. Sargent, services as patrol	64 47
Edward E. Taylor,	54 25
Albert D. Hale,	55 12
John G. Gove,	54 25
Jacob P. Torrey,	54 25
<i>Amount carried forward</i>	<u>\$420 11</u>

<i>Amount brought forward</i>	\$420 11
Daniel Ryan, services as patrol.....	54 25
Moses P. Towne, “.....	42 87
James Stanton, “.....	55 12
Ira F. H. Blake, “.....	37 62
Charles W. Page, “.....	40 25
Allen McLean, “.....	3 50
	\$653 72

JULY.

C. H. deRochemont, services as marshal.....	\$78 92
Samuel W. Tuck, services as assistant marshal.....	58 33
John W. Sargent, services as patrol.....	62 00
Edward E. Taylor, “.....	52 50
Allen McLean, “.....	20 13
Ira F. H. Blake, “.....	33 25
Charles W. Page, “.....	42 00
Moses P. Towne, “.....	35 00
James Stanton, “.....	52 50
Daniel Ryan, “.....	54 25
Jacob P. Torrey, “.....	57 75
John G. Gove, “.....	52 50
Albert D. Hale, “.....	52 50
Henry Cook, jr., blank book.....	5 00
William H. Noyes, teaming.....	1 00
Scovill Manufacturing Company, police buttons.....	7 50
John N. Pike, services at police court.....	5 00
J. W. Butler, biscuits.....	14 49
	\$684 62

AUGUST

C. H. deRochemont, services as marshal.....	\$77 93
Samuel W. Tuck, services as assistant marshal.....	58 34
John W. Sargent, services as patrol.....	67 50
Edward E. Taylor, “.....	56 00
James Stanton, “.....	57 75
Charles W. Page, “.....	40 25
Moses P. Towne, “.....	48 12
Albert D. Hale, “.....	57 75
<i>Amount carried forward</i>	\$463 64

<i>Amount brought forward</i>	\$463 64
Ira F. H. Blake, services as patrol.....	44 62
Daniel Ryan, ".....	57 75
John G. Gove, ".....	57 75
Jacob P. Torrey, ".....	61 25
John H. Daniels, ".....	3 50
Allen McLean, ".....	17 50
Charles N. Safford, ".....	5 25
William Moore, ".....	3 50
John J. Hardison, ".....	5 25
Harrison G. Otis, ".....	5 25
	\$725 26

SEPTEMBER.

C. H. deRochemont, services as marshal.....	\$78 43
Samuel W. Tuck, services as assistant marshal.....	59 33
John W. Sargent, services as patrol.....	64 00
Edward E. Taylor, ".....	54 25
Moses P. Towne, ".....	39 37
John G. Gove, ".....	54 25
Jacob P. Torrey, ".....	54 25
Daniel Ryan, ".....	54 25
Albert D. Hale, ".....	54 25
James Stanton, ".....	54 25
Allen McLean, ".....	35 87
Ira F. H. Blake, ".....	37 62
Charles W. Page, ".....	49 00
George W. Snow, professional attendance.....	24 00
Mark W. Foye, whitewashing station.....	5 00
Joseph M. Greenough, horse hire.....	10 25
H. G. Johnson, appearance in court.....	25 00
	\$753 37

OCTOBER.

C. H. deRochemont, services as marshal.....	\$77 92
Samuel W. Tuck, services as assistant marshal.....	58 33
John W. Sargent, services as patrol	62 00
John G. Gove, ".....	52 50
Daniel Ryan, ".....	54 25
<i>Amount carried forward</i>	
	\$305 00

<i>Amount brought forward</i>	\$305 00
Albert D. Hale, services as patrol.....	54 25
James Stanton, "	54 25
Edward E. Taylor, "	52 50
Jacob P. Torrey, "	52 50
Ira F. H. Blake, "	32 37
Charles W. Page, "	46 37
Allen McLean, "	47 25
Moses P. Towne, "	23 62
H. G. Otis, "	17 50
Thomas H. Boardman, hire of boat.	3 00
I. P. Noyes, P. M., postage stamps.....	48
H. P. Sargent, horse hire	2 00
	\$691 09

NOVEMBER.

C. H. deRochemont, services as marshal.....	\$77 87
Samuel W. Tuck, services as assistant marshal.....	58 34
John W. Sargent, services as patrol.....	67 50
Edward E. Taylor, "	54 25
Jacob P. Torrey, "	64 75
Daniel Ryan, "	54 25
Allen McLean, "	29 75
John G. Gove, "	61 25
Ira F. H. Blake, "	40 25
Charles W. Page, "	47 25
Albert D. Hale, "	57 75
James Stanton, "	57 75
Moses P. Towne, "	36 75
	\$707 71

DECEMBER.

Charles H. deRochemont, services as marshal	\$76 32
Samuel W. Tuck, services as assistant marshal.....	58 33
John W. Sargent, services as patrol.....	52 00
Edward E. Taylor, "	52 50
Daniel Ryan, "	54 25
Charles W. Page, "	41 13
<i>Amount carried forward</i>	\$334 53

<i>Amount brought forward</i>	\$334 53
Moses P. Towne, services as patrol	42 87
Ira F. H. Blake, "	33 25
James Stanton, "	52 50
Albert D. Hale, "	54 25
Jacob P. Torrey, "	54 25
Jonh G. Gove, "	54 25
H. G. Otis, "	10 50
Allen McLean, "	45 50
J. M. Greenough, use of horse and team	6 75
John B. Porter, services at City hall	38 50
J. W. Butler, pilot bread	19 52
N. Marden, use of hack	1 00
Moses M. Ross, groceries	57 33
	\$805 00

RECAPITULATION.

Bills paid in January	\$684 49
" February	584 46
" March	630 41
" April	679 96
" May	650 71
" June	653 72
" July	684 62
" August	725 26
" September	753 37
" October	691 09
" November	707 71
" December	805 00
Total expenditures for year ending December 18, 1880	\$8,250 80

SALARIES OF CITY OFFICERS.

Appropriation	\$4,200 00
Balance unexpended, transferred to Incidentals	172 84
Expenditures	<u>\$4,027 16</u>

EXPENDITURES

Authorized by the City Council.

JANUARY.

George W. Piper, services as city treasurer	\$100 00
George H. Stevens, " city clerk	75 00
Joseph M. Tappan, " city messenger	58 33
John N. Pike, " city solicitor	62 50
Thomas E. Cutter, " clerk of common council	22 50
	<u>\$318 33</u>

FEBRUARY.

Joseph M. Tappan, services as janitor	\$58 33
George H. Stevens, " city clerk	75 00
Charles J. Brockway, " assessor	25 00
George W. Piper, " city treasurer	100 00
	<u>\$258 33</u>

MARCH.

George H. Stevens, services as city clerk	\$79 17
Joseph M. Tappan, " city messenger	58 33
Charles J. Brockway, " assessor	25 00
George W. Piper, " city treasurer	100 00
	<u>\$262 50</u>

APRIL.

George W. Piper, services as city treasurer	\$100 00
Thomas E. Cutter, " clerk of common council	22 50
Joseph M. Tappan, " city messenger	58 33
George W. Stevens, " city clerk	79 17
Charles J. Brockway, " assessor	25 00
	<u>\$285 00</u>

MAY.

George W. Piper, services as city treasurer.....	\$100 00
C. J. Brockway, " assessor	25 00
Joseph M. Tappan, " city messenger.....	58 33
George H. Stevens, " city clerk	79 17
	<u>\$262 50</u>

JUNE.

Joseph M. Tappan, services as city messenger.....	\$ 58 33
George W. Piper, " city treasurer	100 00
Charles J. Brockway, " assessor.....	25 00
George H. Stevens, " city clerk.....	79 17
	<u>\$262 50</u>

JULY.

Charles J. Brockway, services as assessor	\$ 25 00
John N. Pike, " city solicitor.....	62 50
George W. Piper, " city treasurer.....	100 00
Thomas E. Cutter, " clerk of common council	22 50
Joseph M. Tappan, " city messenger.....	58 33
George H. Stevens, " city clerk.....	79 17
	<u>\$347 50</u>

AUGUST.

Joseph M. Tappan, services as city messenger.....	\$ 58 17
George W. Piper, " city treasurer	100 00
George H. Stevens, " city clerk.....	79 17
C. J. Brockway, " assessor	25 00
	<u>\$262 34</u>

SEPTEMBER.

Charles C. Donnell, services as assessor	\$300 00
G. W. Jackman, use of team and services as assessor....	308 00
Charles J. Brockway, services as assessor.....	125 00
George H. Stevens, " city clerk.....	79 17
Joseph M. Tappan, " city messenger.....	58 49
George W. Piper, " city treasurer... ..	100 00
	<u>\$970 66</u>

OCTOBER.

George W. Piper, services as city treasurer.....	\$100 00
George H. Stevens, " city clerk.....	79 17
<i>Amount carried forward.....</i>	<u>\$179 17</u>

<i>Amount brought forward</i>	\$179 17
Joseph M. Tappan, services as messenger.....	58 33
Thomas E. Cutter, “ clerk of common council.	22 50
	\$260 00

NOVEMBER.

George H. Stevens, services as city clerk.....	\$ 79 17
George W. Piper, “ city treasurer.....	100 00
Joseph M. Tappan, “ city messenger.....	58 33
	\$237 50

DECEMBER.

Joseph M. Tappan, services as city messenger.....	\$ 58 33
John N. Pike, “ city solicitor.....	62 50
George H. Stevens, “ city clerk	79 17
George W. Piper, “ city treasurer.....	100 00
	\$300 00

RECAPITULATION.

Bills paid in January.....	\$318 33
“ February... ..	258 33
“ March	262 50
“ April	285 00
“ May	262 50
“ June	262 50
“ July.....	347 50
“ August	262 34
“ September.....	970 66
“ October.....	260 00
“ November	237 50
“ December	300 00

Total expenditures for year ending December 18, 1880. . \$4,027 16

INTEREST DEPARTMENT.

Appropriation\$25,000 00

CREDITS.

Dividends Nos. 5 and 6 city railroad.. . . .	\$2,782 50	
From overdue taxes	1,297 50	
From deposit at Mechanics National bank	198 37	
Discount for prepayment of county tax....	23 80	4,302 17
		<u>\$29,302 17</u>
Expenditures.....	\$29,209 81	
Undrawn, transferred to Incidentals to balance account.		<u>92 36</u>

EXPENDITURES

Authorized by the Committee on Finance.

JANUARY.

One hundred and sixty-seven coupons	\$6,290 00
H. A. Tenney, librarian, 6 months interest on Sawyer fund	112 50
	<u>\$6,402 50</u>

FEBRUARY.

Fifteen coupons	\$450 00
Overseers of the poor, Dexter fund	99 08
	<u>\$549 08</u>

MARCH.

Twenty-five coupons.....	\$2,115 00
Note No. 240, one year's interest to February 15, 1880..	90 00
“ 241, six months’ “ ..	112 50
“ 246, “ “ ..	22 50
“ 247, “ “ ..	27 00
“ 248, “ “ ..	22 50
“ 249, “ “ ..	22 50
	<u>\$2,412 00</u>
<i>Amount carried forward</i>	<i>\$2412 00</i>

<i>Amount brought forward</i>	\$2,412 00
Note No. 253, 6 months' interest to February 18, 1880..	22 50
“ 254, “ “ “ ..	22 50
“ 255, “ “ “ ..	22 50
“ 256, “ “ “ ..	13 50
“ 257, “ “ “ ..	11 25
“ 258, “ “ “ ..	11 25
“ 260, “ “ “ ..	11 25
	\$2,526 75

APRIL.

Note No. 243, 6 months' interest to February 15, 1880..	135 00
“ 244, “ “ “ ..	11 25
“ 239, “ “ “ ..	67 50
Brown fund, 12 months' interest to March 4, 1880.....	702 50
Three coupons.....	645 00
	\$1,561 25

MAY.

Note No. 242, 6 months' interest to February 15, 1880..	37 50
“ 250, “ “ “ ..	202 50
“ 259, “ “ “ ..	20 25
Fifty-four coupons	1,239 50
	\$1,499 75

JUNE.

Note No. 279, 6 months' interest to May 4, 1880.....	90 42
Seventeen coupons.....	567 50
	\$657 92

JULY.

Eighty-three coupons.....	\$2,277 50
Note No. 274, 3 mos. and 9 days' interest to Mar. 1, '80	55 00
“ 275, 2 “ 5 “ Aug. 5, 1880	30 68
“ 276, 2 “ 4 “ Aug. 6, 1880	15 12
“ 278, discount for 100 days	116 37
	\$2,494 7

SEPTEMBER.

One hundred and thirty-nine coupons.....	\$6,897 50
Note No. 239, 6 months' interest to August 15, 1880....	67 50
<i>Amount carried forward</i>	\$6,965 00

<i>Amount brought forward</i>	\$6,965 00
Note No. 241, 6 months' interest to August 15, 1880....	112 50
“ 242, “ “ “ “	37 50
“ 243, “ “ “ “	135 00
“ 244, “ “ “ “	11 25
“ 50, “ “ “ “	202 50
“ 255, “ “ “ “	22 50
“ 256, “ “ “ “	13 50
“ 257, “ “ “ “	11 25
“ 258, “ “ “ “	11 25
“ 259, “ “ “ “	20 25
“ 260, “ “ “ “	11 25
“ 270, on \$6,993.66 to Aug. 13, 1880.....	262 34
“ 280, \$4,897.30 for 19 days.....	7 75
“ 282, \$8,000 for 60 days at 3 3-8 per cent....	45 00
“ 283, \$6,500 “ 42 “ “ “	25 59
“ 284, \$5,000 “ 42 “ “ “	20 42
Sawyer fund, 6 months' interest to July 1, 1880.....	112 50
	\$8,027 35

OCTOBER.

Eight Coupons	\$750 00
Note No. 246, 6 months' interest to August 15, 1880....	22 50
“ 247, “ “ “ “	27 00
“ 248, “ “ “ “	22 50
“ 249, “ “ “ “	22 50
“ 253, “ “ “ “	22 50
“ 254, “ “ “ “	22 50
“ 271, on \$2,000 to September 22, 8 1-2 months	63 33
“ 272, “ “ “ “ “ “	63 33
“ 273, on \$2,000 to Sept. 29, 8 mos. 23 days...	129 58
Atwood fund, one years' interest to September 1, 1880..	472 50
	\$1,618 24

NOVEMBER.

Thirty-seven coupons.....	\$ 822 50
Note No. 286, 6 months' interest on \$1,500.....	15 00
	\$837 50

DECEMBER.

One hundred and sixteen coupons.....3,034 50

RECAPITULATION.

Interest paid in January	\$6,402 50
“ February	549 08
“ March	2,526 75
“ April	1,561 25
“ May	1,499 75
“ June	657 92
“ July	2,494 97
“ September	8,027 35
“ October	1,618 24
“ November	837 50
“ December.....	3,034 50

Total interest paid for year ending December 18, 1880 \$29,209 81

FUEL DEPARTMENT.

Appropriation	\$5,000 00
Received from William H. Noyes for 11 bushels charcoal	1 10
	<u>\$5,001 10</u>
Expenditures	3,900 37
Undrawn, transferred to Incidentals to balance account.	<u>\$1,100 73</u>

EXPENDITURES

Authorized by the Committee on Fuel.

JANUARY.

E. H. & G. J. George, for weighing	\$ 5 18
Daniel Wadleigh, charcoal	46 17
Albert Hodgdon, hauling charcoal	50
E. M. Morse, on account of wood	100 00
	<u>\$151 85</u>

FEBRUARY.

E. M. Morse, pine wood	\$124 88
Luke R. Jones, cording wood	25 08
George E. Elkins, charcoal	9 00
Charles R. Sargent, measuring loads of coal	63
	<u>\$159 59</u>

APRIL.

Luke R. Jones, cording wood	\$ 6 25
E. M. Morse, wood	293 50
	<u>\$299 75</u>

JUNE.

Philadelphia & Reading Coal and Iron Co., coal	\$121 42
--	----------

AUGUST.

Daniel Wadleigh, charcoal	\$ 98 40
N. Varina & Son, coal	548 00
	<u>\$646 40</u>

SEPTEMBER.

Daniel Wadleigh, charcoal	\$ 85 30
N. Varina & Son, hard coal	2,118 42
Philadelphia & Reading Coal and Iron Co., hard coal....	6 00
	<u>\$2,209 72</u>

NOVEMBER.

William Porter, jr., sprinkling streets.....	\$ 50
Hervey Kimball, weighing wood and coal	20 35
N. Varina & Son, coal	225 00
N. Varina & Son, coal.....	47 79
	\$293 64

DECEMBER.

N. Varina & Son, coal	\$18 00
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RECAPITULATION.

Bills paid in January	\$ 151 85
“ February	159 59
“ April	299 75
“ June.....	121 4
“ August.....	646 40
“ September	2,209 72
“ November	293 64
“ December.....	18 00

Total expenditures for year ending December 18, 1880. . \$3,900 37

Expended for the following purposes :

School department :

Hancock st. school house, 18,460 lbs. coal	\$ 47 38
Bromfield st. “ 21,175 “	54 35
Purchase st. “ 18,535 “	47 57
School st. school house, 21,100 lbs. coal...	54 16
Temple street “ 6,430 “ ...	16 55
Kent street “ 9,350 “ ...	24 00
Ashland street “ 9,290 “ ...	23 84
Charles street “ 9,790 “ ...	25 13
Buck street “ 16,150 “ ...	42 56
Kelley school house 107,535 “ ...	288 68
Davenport school house, 28,900 “ ...	77 41
Currier “ 39,700 “ ...	108 31
Plains “ 8,400 “ ...	21 56
1,700 bushels of charcoal	165 59

Amoun carried forward.....

\$997 09

<i>Amount brought forward</i>		\$997 09
Poor department :		
560,083 lbs. of coal	\$1,500 21	
wood, and cording same	549 71	
measuring wood	7 50	2,057 42
Fire department :		
Hook and Ladder house, 9020 lbs. coal	23 15	
No. 1 engine house, 13,760 "	35 32	
No. 2 " 16,120 "	38 54	
No. 8 " 11,490 "	29 49	
300 bushels charcoal	29 31	155 81
City hall :		
128,585 pounds coal	344 42	
300 bushels charcoal	29 31	373 73
Police station and Market hall :		
40,410 pounds coal	102 58	
50 bushels charcoal	4 89	107 47
Public library :		
54,735 pounds coal	146 61	
50 bushels charcoal	4 89	151 50
Cushing Guard armory :		
10,500 pounds coal	30 31	
25 bushels charcoal	2 44	32 75
City Cadets' armory :		
2,980 pounds coal	2 50	
25 bushels charcoal	2 44	4 94
Weighing coal		18 03
Surveying charcoal		63
Teaming charcoal		1 00
		<u>\$3,900 37</u>

LIGHTING PUBLIC BUILDINGS AND STREETS.

Appropriation	\$5,800 00
Expenditures	5,733 11
Undrawn, transferred to Incidentals to balance account.	66 89

EXPENDITURES

Authorized by the Committee on Lighting Streets.

JANUARY.

Newburyport Gas Co., lighting public buildings and streets	\$532 52
Mrs. John Bogardus, lantern and post	7 00
Todd & Brown, three lamp posts, etc	5 40
J. H. & J. Hall, stock and labor	3 27
Albert Russell & Sons, lamp posts and frame	23 00
	<u>\$571 19</u>

FEBRUARY.

Newburyport Gas Co., lighting streets and public buildings	\$460 30
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MARCH.

Newburyport Gas Co., lighting streets and public buildings	\$459 48
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APRIL.

Newburyport Gas Co., lighting streets and public buildings	\$494 29
John L. Tobin, care of lanterns	4 17
	<u>\$498 46</u>

MAY.

Newburyport Gas Co., lighting streets and public buildings	\$453 21
Nathaniel Tufts, 6 copper street lanterns	34 50
	<u>\$487 71</u>

JUNE.

Newburyport Gas Co., lighting streets and public buildings	\$452 66
Charles R. Sargent, labor and stock	2 29
	<u>\$454 95</u>

JULY.

Newburyport Gas Co., lighting streets and public buildings	\$510 80
James W. Fennimore, cleaning gas lights	2 50
	<u>\$513 30</u>

AUGUST

Newburyport Gas Co., lighting streets and buildings	\$405 40
Todd & Brown, lamp posts and fitting irons	10 20
	<u>\$415 60</u>

SEPTEMBER.

Newburyport Gas Co., lighting streets and buildings	\$415 31
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OCTOBER.

Newburyport Gas Co., lighting streets and buildings	\$444 57
James W. Fennimore, cleaning lanterns	2 50
	<u>\$447 07</u>

NOVEMBER.

Newburyport Gas Co., lighting streets and buildings	\$479 22
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DECEMBER.

Newburyport Gas Co., lighting streets and buildings	\$529 02
E. H. & G. J. George, lantern frame	1 50
	<u>\$530 52</u>

RECAPITULATION.

Bills paid in January	\$571 19
" February	460 30
" March	459 48
" April	498 46
" May	487 71
" June	454 95
" July	513 30
" August	415 60
" September	415 31
" October	447 07
" November	479 22
" December	530 52

Total expenditures for year ending December 18, 1880 \$5,733 11

APPORTIONMENT OF EXPENDITURES

For lighting public buildings and streets for the year ending Dec. 18, 1880.

Lighting City hall, 130,600 cubic feet gas costing net price	\$359 16
“ Market hall, 86,900 “ “	238 97
“ Public library, 35,800 “ “	98 45
“ C. G. armory, 19,900 “ “	54 73
“ C. C. armory, 29,300 “ “	80 57
“ No. 1 engine house, 57,300 “ “	157 57
“ No. 2 “ 19,700 “ “	54 18
“ No. 3 “ 39,100 “ “	107 53
“ No. 8 “ 23,800 “ “	65 45
“ Pleasant st. “ 18,500 “ “	50 89
“ School house mall, 2,800 “ “	7 70
“ City hall lanterns, 10,000 “ “	27 51
Cost of gas and gasoline street lights.....	4,301 41
Lamp posts, lanterns, etc	128 99
	<u>\$5,733 11</u>

The whole number of street lights is 290, viz : gas, 131 ; oil, 159.

BROMFIELD FUND.

Balance from last year.....	\$	1	01
Income from fund.....		400	00
Credit from Incidentals.....		1	24
			<u>\$402 25</u>
Expenditures		402	25

EXPENDITURES

Authorized by the Committee on Bromfield Fund

MARCH.

Gerrish & Goodwin, labor on door.....	\$	35
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JUNE.

Joseph G. Pearson, setting out trees.....	58	00
James Knight, 100 rock maple trees.....	75	00
R. M. Ferley, 13 elm trees.....	9	75
		<u>\$142 75</u>

JULY.

P. C. Greenlaw, 1 1-2 days work.....	3	00
T. Larner, trimming trees.....	27	00
		<u>\$30 00</u>

OCTOBER.

Geo. D. Thurlow, labor on culverts &c.....	40	60
David Smith, bricks.....	24	40
		<u>\$65 00</u>

NOVEMBER.

George D. Thurlow, jr., work on brick pavements.....	10	89
City Clerk for G. D. T. jr., paving at Kelley school house..	20	00
James A. Rand, cutting down trees.....	1	00
David Smith, bricks.....	25	00
		<u>\$53 89</u>

DECEMBER.

F. E. Pillsbury, trimming trees.....	14	25
Joseph Pearson, trimming trees.....	14	50
Joseph G. Pearson, setting out trees.....	10	00
Thomas Glynn, brick paving.....	16	34
Albert W. Stevens, brick paving.....	6	90
E. P. Shaw, brick paving.....	10	69
George Cnrrier, brick paving.....	8	00
George D. Thurlow, work on crossing.....	2	50
P. M. Lougee, repairing bridge.....	4	75
John C. Stanley, brick paving.....	22	33
		\$110 26

RECAPITULATION.

Bills paid in March	35
“ “ June	142 75
“ “ July	30 00
“ “ October	65 00
“ “ November.....	53 89
“ “ December	110 26
	\$402 25

BRIDGES AND CULVERTS.

Appropriation\$1,200 00

CREDITS.

For 18 cement casks sold 90

Overdrawn, transferred from Incidentals to balance account 851 89

\$2,052 79

EXPENDITURES.

For Newburyport bridge\$1,169 14

Essex Merrimac bridge..... 407 96

Culverts 475 69 \$2,052 79

EXPENDITURES ON NEWBURYPORT BRIDGE,

Authorized by the committee on Bridges and Culverts.

JANUARY.

Thurston & Colman, lumber for bridge\$10 40

Caleb P. Davis, one month's labor..... 33 34

Marston & Morse, sawing and planing 1 95

C. Stickney, two single blocks..... 1 00

N. & T. Foster, one reflector for bridge 35

Paul A. Merrill, lamp chimneys and wicks..... 4 53

J. H. & J. Hall, setting glass, &c. 70

M. M. Ross, kerosene 6 35

\$58 62

FEBRUARY.

Caleb P. Davis, one month's labor..... 33 33

John C. Kimball, lumber..... 6 84

\$40 17

MARCH.

Eben B. Whitmore, services as draw tender..... 33 33

J. A. Adams, teaming oil to bridge 1 75

\$35 08

APRIL.

Eben B. Whitmore, services as draw tender.....	33	58
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MAY.

Eben B. Whitmore, services as draw tender.....	33	33
Thurston & Colman, lumber		98
		\$34 31

JUNE.

Eben B. Whitmore, services as draw tender ..	33	33
Thurston & Colman, lumber		32
		\$33 65

JULY.

Eben B. Whitmore, services as draw tender.....	33	33
N. Varina, for W. Silliker, service on bridge	132	00
		\$165 33

AUGUST.

Eben B. Whitmore, services as draw tender....	36	15
John Currier, jr., lumber	237	22
Richardson Brothers, two pounds nails		14
Renton M. Perley, labor on bridge.....	65	00
C. C. Stockman, 109 pounds spikes.....	3	27
John P. Evans, appearing before commissioners	5	00
		\$346 78

SEPTEMBER.

Thurston & Colman, lumber	75	22
W. & M. O'Connell, blacksmithing	17	90
Marston & Morse, sawing boards.....	1	00
Eben B. Whitmore, bridge tender.....	33	33
		\$127 45

OCTOBER.

Eben B. Whitmore, services as draw tender.....	47	08
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NOVEMBER.

Eben B. Whitmore, services as draw tender	33	63
W. & M. O'Connell, labor and stock....	8	45
Blake & Noyes, painting bridge	155	00

<i>Amount brought forward.....</i>		\$197 08
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<i>Amount brought forward</i>	\$197 08
John Currier, jr., ninety feet hard pine	3 15
J. H. & J. Hall, paint and glass	2 95
D. B. Jaques, teaming	3 50
S. H. Thurlow, spikes and nails.....	5 58
	\$212 26

DECEMBER.

Eben B. Whitmore, services as draw tender.....	33 33
J. W. Evans, sawing plank.....	50
Richardson Brothers, oil lantern	1 00
	\$34 83

EXPENDITURES ON ESSEX MERRIMAC BRIDGE,

Authorized by the committee on Bridges and Culverts.

JANUARY.

J. C. Stanley, iron and bolts.....	16 10
John P. Evans, cash paid on account of bridge.....	9 37
George Lucy, horse hire.....	2 00
C. W. Whitmore, labor on bridge 9 days	18 00
Eben B. Whitmore, " 15 "	30 00
Uriah Clark, " 15 "	30 00
Noah B. Church. " 2 1-2 days	5 00
John Currier, jr., twelve pounds spikes.....	30
John H. P. McQuillen, labor on bridge 12 days	24 00
Thurston & Colman. lumber....	250 91
	\$385 68

APRIL.

J. M. Greenough, horse hire.....	1 00
William Warner. lighting chain bridge	8 25
	\$9 25

MAY.

S. H. Thurlow, nails.....	1 06
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SEPTEMBER.

Marston & Morse, labor and stock....	3 50
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DECEMBER.

Eli Lamprey, labor on bridge	2 03
W. O. Evans, "	1 00
Thurston & Colman, lumber	5 44
	\$8 47

EXPENDITURES ON CULVERTS,

Authorized by the committee on Bridges and Culverts.

JANUARY.

Thomas P. Mackinney, staples and hinges	74
Clarence A. Currier, repairing culvert	2 50
	\$3 24

MAY.

T. Ronan, jr., and G. D. Thurlow, jr., building culvert....	22 50
Patrick Niland, three days' labor on culverts	3 75
John Buckley, five " "	6 25
Thurston & Colman, lumber	16 69
	\$49 19

JUNE.

David Smith, bricks	42 00
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SEPTEMBER.

Thurston & Colman, lumber	5 69
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OCTOBER.

Thomas G. Dodge, labor on culverts	4 00
David Smith, bricks	78 50
H. P. Macintosh Engine Co., washing out culverts, &c	25 00
George D. Thurlow, jr., two days' labor on culverts.....	5 00
	\$112 50

NOVEMBER.

David Smith, bricks	39 00
T. H. Lunt, labor on culverts	12 50
Thomas Ronan, jr., work on culverts	17 50
<i>Amount carried forward</i>	<i>\$69 00</i>

<i>Amount brought forward</i>	\$69 00
Geo. D. Thurlow, jr., work on culverts	15 62
Patrick Niland, "	25 00
Joseph C. Batchelder, "	10 00
John T. Batchelder, 2029 feet pine plank	34 49
R. M. Perley, labor on culvert, J. W. Dole and others....	20 00
	<u>\$174 11</u>

DECEMBER.

Eli Lamprey, labor on culverts	4 38
Thurston & Colman, lumber.....	84 58
	<u>\$88 96</u>

RECAPITULATION.

	On Newburyport bridge.	On Essex Mer- rimac bridge.	On Culverts.
Bills paid in January	\$ 58 62	\$385 68	\$ 3 24
" February	40 17		
" March	35 08		
" April	33 58	9 25	
" May	34 31	1 06	49 19
" June.....	33 65		42 00
" July	765 33		
" August.....	346 78		
" September...	127 45	3 50	5 69
" October	47 08		112 50
" November...	212 26		174 11
" December ...	34 83	8 47	88 96
Total expenditures.....	<u>\$1,169 14</u>	<u>\$407 96</u>	<u>\$475 69</u>

PUBLIC LIBRARY.

Appropriation \$1,000 00

CREDITS.

From Town of Newbury, use of library for 1879,	\$146 00	
Dog money	445 10	
From librarian for fines	20 50	611 60
		<u>\$1,611 60</u>
Expenditures	\$1,482 28	
Undrawn, transferred to Incidentals to balance account..	\$129 32	

EXPENDITURES

Authorized by the City Council.

JANUARY.

Hiram A. Tenney, services as librarian	\$85 33
George E. Donnels, services as janitor	84 16
M. C. Teel, advertising	1 75
H. G. Johnson, jr., feather dusters	5 60
Lothrop Withington, examining library	30 00
Charles L. Davis, three quarts alcohol	2 25
Gillett & Co., expressage	2 55
	<u>\$211 64</u>

FEBRUARY.

Hiram A. Tenney, services as librarian	83 33
George W. Clark, pencils and rubbers	3 62
Lord Brothers, glue	25
H. T. Crofoot, binding books	59 75
	<u>\$146 95</u>

MARCH.

H. A. Tenney, services as librarian	\$83 33
George L. Jackman, cementing furnace ..	1 50
	<u>\$84 83</u>

APRIL.

H. A. Tenney, services as librarian	\$83 33
Isaac P. Noyes, P. M., box rent, &c	6 62
M. C. Teel, printing	6 50
	<u>\$96 45</u>

MAY.

Hiram A. Tenney, services as librarian	\$83 33
William H. Huse & Co., printing	110 00
	<u>\$193 33</u>

JUNE.

Hiram A. Tenney, services as librarian	\$83 33
C. H. Johnson, pencils and ink	5 30
H. T. Crofoot, binding books	32 35
Piper & Sawyer, insurance on building	62 50
	<u>\$183 48</u>

JULY.

H. A. Tenney, services as librarian	\$85 89
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AUGUST.

H. A. Tenney, services as librarian	\$83 33
Gillett & Co., expressage	2 10
W. C. Putney, "	2 50
	<u>\$87 93</u>

SEPTEMBER.

Hiram A. Tenney, services as librarian	\$83 33
W. H. Huse & Co., printing and advertising	8 00
	<u>\$91 33</u>

OCTOBER.

H. A. Tenney, services as librarian	\$83 33
W. C. Plummer, brushes and brooms	2 17
	<u>\$85 50</u>

NOVEMBER

H. A. Tenney, services as librarian	\$86 83
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DECEMBER.

W. H. Huse & Co., printing and advertising	\$30 00
H. A. Tenney, services as librarian	83 37
Lothrop Withington, examining the library	10 00
Lord Brothers, glue	30
George L. Jackman, copper wash basin	50
C. H. Johnson, ink and paper	3 95
	\$128 12

RECAPITULATION.

Bills paid in January	\$211 64
“ February	146 95
“ March	84 83
“ April	96 45
“ May	193 33
“ June	183 48
“ July	85 89
“ August	87 93
“ September	91 33
“ October	85 50
“ November	86 83
“ December	128 12

* Total expenditures for year ending December 18, 1880.

\$1,482 28

NOTES PAYABLE.

Amount outstanding December 20, 1879\$69,200 00

Notes issued in 1880, as follows, viz :

No. 270.....	6,993 66
271.....	2,000 00
272.....	2,000 00
273.....	4,000 00
274.....	5,000 00
275.....	4,000 00
276.....	2,000 00
277.....	7,000 00
278.....	12,000 00
279.....	19,589 22
280.....	4,897 30
281.....	1,500 00
282.....	8,000 00
283.....	6,500 00
284.....	5,000 00
285.....	1,031 00
286.....	4,500 00
	\$165,211 18

Notes paid during 1880 as follows, viz :

No. 241, Samuel O. Johnson.....	4,500 00
242, Mary B. Johnson.....	1,500 00
246, Order of G. W. Piper, city treas.	1,000 00
270, Sinking Fund Commissioners..	6,993 66
271, J. A. Frothingham.....	2,000 00
272, ".....	2,000 00
273, Samuel O. Johnson.....	4,000 00
274, John J. Currier, Treasurer....	5,000 00
275, " ".....	4,000 00
276, " ".....	2,000 00
277, J. Pickering & Moseley.....	7,000 00
278, ".....	12,000 00
279, Trustees of the Horton Fund..	19,589 22

<i>Amounts carried forward.....</i>	<i>\$71,582 88</i>	<i>\$165,211 18</i>
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<i>Amounts brought forward</i>	\$71,582 88	\$165,211 18
280, Bayley Hat Company	1,500 00	
281, Wardens and Vestrymen of St. Paul's church.....	4,897 30	
282, J. Pickering & Moseley.....	8,000 00	
283, Order of G. W. Piper, city treas.	6,500 00	
284, Institution for Savings.....	5,000 00	
285, Samuel O. Johnson,.....	4,500 00	\$101,980 18
Amount outstanding December 18, 1880.....		63,231 00

EXPENDITURES

Authorized by the City Council.

JULY.

Paid note No. 274.....	\$5,000 00
" 275.....	4,000 00
" 276.....	2,000 00
	<u>\$11,000 00</u>

SEPTEMBER.

Paid note No. 241.....	4,500 00
" 242.....	1,500 00
" 270.....	6,993 66
" 279.....	19,589 22
" 280.....	4,897 30
" 281.....	1,500 00
	<u>\$38,980 18</u>

OCTOBER.

Paid note No. 246.....	1,000 00
" 271.....	2,000 00
" 272.....	2,000 00
" 273.....	4,000 00
" 277.....	7,000 00
" 278.....	12,000 00
" 282.....	8,000 00
" 283.....	6,500 00
" 284.....	5,000 00
	<u>\$47,500 00</u>

NOVEMBER.

Paid note No. 286.....\$4,500 00

RECAPITULATION.

Notes paid in July.....\$11,000 00

“ September 38,980 18

“ October..... 47,500 00

“ November 4,500 00

Total amount paid for year ending December 18, 1880 \$101,980 18

STATE OF MASSACHUSETTS.

EXPENDITURES

Charged in account as per page 126.

JANUARY.

Estate of S. W. Marston, rent of armory	\$100 00
R. Fowler, rent of Washington Hall	68 75
	<u> </u>
	\$168 75

MARCH.

Mrs. L. T. Batchelder, three months' rent of hall	31 25
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APRIL.

Estate of S. W. Marston, three months' rent of armory..	100 00
R. Fowler, rent of Washington Hall	68 75
	<u> </u>
	\$168 75

MAY.

L. T. Batchelder, rent of Washington Hall	31 25
---	-------

JULY.

Estate of S. W. Marston, rent of armory ...	100 00
R. Fowler, rent of Washington Hall	68 75
	<u> </u>
	\$168 75

AUGUST

Mrs. L. T. Batchelder, rent of Washington Hall	31 25
--	-------

OCTOBER.

R. Fowler, rent of hall and ante room	68 75
Estate of S. W. Marston, rent of armory	100 00
	<u> </u>
	\$168 75

NOVEMBER.

Co. B, 8th Regiment, M. V. M., rent of rooms ...	50 00
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DECEMBER.

L. T. Batchelder, rent of Washington Hall.....	31 25
State aid paid in 1880 to date	3,569 00
Military aid paid under chapter 252 Acts of 1879.....	1,398 00
	<u>\$4,998 25</u>

RECAPITULATION.

Bills paid in January	\$168 75
“ March	31 25
“ April.....	168 75
“ May	31 25
“ July.....	168 75
“ August	31 25
“ October	168 75
“ November	50 00
“ December	<u>4,998 25</u>
Total expenditures for year ending December 18, 1880	\$5,817 00

BOARD OF WATER COMMISSIONERS.

Amount transferred from Incidentals to meet the follow- ing expenditures.....	\$1,150 75
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EXPENDITURES

Authorized by the City Council.

JUNE.

Patrick Niland, four days' labor.....	\$ 5 00
L. D. Stevens, labor with team	23 00
Charles R. Sargent, uncapping water pipe	1 00
	<u>\$29 00</u>

JULY.

James J Shattuck, board of sundry persons	\$41 40
Thurston & Colman, lumber	16 26
<i>Amount carried forward.....</i>	<u>\$ 57 66</u>

<i>Amount brought forward</i>	\$57 66
J. M. Tappan, distributing reports.....	3 00
J. H. P. McQuillen, labor and stock.....	12 27
William A. Gould, service of assistant engineer.....	84 35
George Lucy, horse hire.....	49 50
S. H. Thurlow, 15 pounds of nails.....	83
Joseph C. Batchelder, services with surveyor.....	3 00
Albert W. Bartlett, ".....	4 50
John N. Pike, services rendered.....	6 00
	\$221 11

AUGUST.

Helotype Printing Co., 500 copies map of water works....	\$45 00
--	---------

SEPTEMBER

Henry M. Wightman, services as engineer.....	\$560 42
Board of water commissioners, personal examination.....	106 50
Nathaniel Pierce, examining water question.....	100 00
	\$766 92

OCTOBER.

Karl Castlehun, analyses of water	\$60 00
Joseph M. Greenough, horse hire.....	19 00
W. H. Noyes, expenses to Boston	3 00
	\$82 00

NOVEMBER.

Martin Higgins, labor on water works.....	\$4 37
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DECEMBER.

Charles R. Sargent, order for water commissioners.....	\$2 35
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RECAPITULATION.

Bills paid in June.....	\$ 29 00
" July	221 11
" August.....	45 00
" September.....	766 92
" October	82 00
" November	4 37
" December.....	2 35

Total expenditures for year ending December 18, 1880. \$1,150 75

ABATEMENTS OF TAXES.

1874.

Credit from Incidentals	\$186 30
Allowed on assessors' orders	186 30

1875.

Credit from Incidentals	133 00
Allowed on assessors' orders	133 00

1876.

Credit from Incidentals	91 28
Allowed on assessors' orders	91 28

1877.

Credit from Incidentals	85 20
Allowed on assessors' orders	85 20

1878.

Credit balance December 20, 1879	1,731 35
Credit from Incidentals	515 75
Allowed on assessors' orders	<u>2,247 10</u>

1879.

Credit balance December 20, 1879	323 85
Allowed on assessors' orders	313 13
Balance December 18, 1880 to new account	<u>\$ 10 72</u>

1880.

Appropriation	500 00
Overlay of taxes	2,357 63
Supplementary committal and reassessments	322 32
	<u>\$3,179 95</u>
Allowed on assessors' orders	1,525 08
Balance December 18, 1880, to new account	<u>\$1,654 87</u>

WIDENING MERRIMAC STREET.

Amount transferred from Incidentals to meet the following expenditures.....\$406 75

EXPENDITURES

Authorized by the City Council.

NOVEMBER.

William A. Gould, plan of alteration on Merrimac street...	\$27 25
Elisha P. Pride, dinners furnished county commissioners...	8 00
J. W. Evans & Co., services rendered laying out Merrimac street	36 50
	<u>\$71 75</u>

DECEMBER.

Felch & Dodge, labor and stock.....	\$10 00
Thomas Waters, for damages awarded.....	225 00
Ira L. Davis, ".....	75 00
Michael Bennett, ".....	25 00
	<u>\$335 00</u>

RECAPITULATION.

Bills paid in November.....	\$ 71 75
" December	355 00
Total expenditures	<u>\$406 75</u>

NON-RESIDENT BANK TAX.

Collected from city banks.....	\$4,915 13
Credited in state account.....	4,064 54
	<u>\$8,979 67</u>
Charged in state account.....	\$6,723 63
Cost of assessing and collecting.....	49 15
	<u>\$6,772 78</u>
Balance transferred to Incidentals to balance account...	\$2,206 89

INCOME FROM PUBLIC BUILDINGS.

Received from C. E. Adams & Co., rent of two stalls in Market house.....	\$125 00
Received from W. T. Colman, rent of one stall in Market house.....	100 00
Received from County of Essex, rent of Market hall.....	225 00
“ City hall.....	871 25
	<u>\$1,321 25</u>
Paid E. F. Bartlett, clerk, amount allowed by county for rent of office to January 1 1880.....	50 00
Transferred to Public Property to balance account.....	<u>\$1,271 25</u>

RECEIVED ON ACCOUNT OF TAXES.

Tax of 1873 from collector.....	\$ 11 48
“ 1876 “.....	21 39
“ 1877 “.....	251 00
“ 1878 “.....	6,220 21
“ 1879 “.....	14,368 38
“ 1880 “.....	98,669 72
	<u>\$119,542 18</u>

SINKING FUND.

Appropriation	\$3,000 00
Excess of income over expenditures for 1880	3,309 89
	<u>\$6,309 89</u>
Paid sinking fund commissioners	\$6,309 89

COMMISSIONERS OF ATKINSON COMMON.

EXPENDITURES

Charged in account as per page 127.

September — James Knight, 26 sugar maple trees\$16 00

LIQUOR LICENSES.

Received for liquor licenses granted\$7,800 00

Paid state of Massachusetts 25 per cent of receipts 1,950 00

Balance transferred to Incidentals to balance account...\$5,850 00

STATE AND COUNTY TAXES.

Appropriated and paid for state tax of 1880.....\$6,555 00

“ “ county tax of 1880..... 7,135 54

REPORT

OF THE

BOARD OF WATER COMMISSIONERS.

To the City Council of the City of Newburyport:

The undersigned, Commissioners elected by your honorable body, by virtue of Chapter 235 of the Acts of 1880, and charged by said Act with the duty of "investigating all questions relative to the introduction of pure water into the city," and to ascertain the cost of the same, have the honor to submit the following report as "the result of their investigations and deliberations upon the same."

Upon receiving notice of their election, the Board at once met and organized by the choice of E. F. Bartlett as chairman, and Francis Curtis as secretary, and proceeded to consider the matter confided to their hands by your votes. It was determined by the Board that the interests of the city would be best served by the employment of an engineer whose reputation and standing in his profession would be such as should secure the confidence and respect of our citizens, and it was also considered that it was every way desirable that in procuring such service it was essential to have the aid and advice of some person who should be wholly clear of any and all personal interest or prejudice in favor of a particular system or works, and at the same time one who by practical experience and education should be thoroughly competent to advise and assist the Board in ascertaining the best and most

feasible source of supply of pure water, as well as to give as nearly as possible accurate and reliable estimates of the cost of procuring and distributing the same for the use of our citizens and for the use of the city by its Fire Department. And in pursuance of this plan the Board proceeded to interview the City Engineer of Boston, Henry M. Wightman esq., and are under obligations to Albert Stanwood esq., a native of this city, and now of the Boston Water Board, for an introduction to Mr. Wightman as well as for many valuable suggestions, and as a result of said interview it was decided by the Board to secure the services of Mr. Wightman.

A meeting of the Commissioners with Mr. Wightman was immediately arranged to proceed to view and investigate the various sources of supply that have from time to time been discussed by our citizens in the term of years in which the question of a water supply has had prominence in the minds of many of our people, and in pursuance of this plan the Board, accompanied by Mr. Wightman, on the 13th day of May visited Bartlett and Jackman's springs at the north end, and also the lands in the Common pasture district at the rear of the city, as well as taking a general view of the topography of the country surrounding the city with a view to the probability of noting some possible source of supply that might have been perhaps overlooked or not considered heretofore. It was, at an early day after the selection of your Board of Commissioners, apparent to them that they were unanimous as to the great necessity of obtaining a source of supply on this side of the Merrimac river, if possible to do so, and this for a variety of reasons, among others that, although in these days of engineering science it is every way practicable to cross such a river with a supply pipe, still, the expense is very much enhanced thereby, and then again the greater expense and time required in case of any break or other casualty to the portion of the pipe under water is another objection to crossing a river if it can be avoided. Acting thus in this direction (the views of the engineers and commissioners being in entire accord), a thorough investigation was determined upon to test and ascertain the probable amount of supply to be obtained from the Bartlett and Jackman springs, and under the direction of the engineer, proper arrangements for measuring the amount of water flowing therefrom, were made by the construction of weirs at each of said springs, and measurements have been made from time to time since, so that it has been ascertained, as

will be seen by the report of the engineers hereto annexed, that the average amount per diem to be obtained by consolidating the waters of these two springs is 550,000 gallons, which would probably be increased somewhat by the water shed immediately surrounding the springs, but as the area of such water shed is quite limited it would not be safe to make a very large estimate thereof over the amount of evaporation taking place from the area of the storage supply after the construction of proper dams for retaining the same.

The excellent quality of the water to be had at this location, it will be readily conceded, makes it a very desirable source of supply, could we be assured that it was to be had in sufficient quantity to answer the demands of the city for the present and a reasonable time in the future, and for a further elucidation of this source of supply the Board would respectfully refer to the report of the engineer herewith submitted, as well as to what may be found therein relating to any possible supply to be obtained by means of artesian wells or boring on Common pasture, so called. At an early period in the investigations of the commission and engineer in making a personal inspection of the topography of the country surrounding the city it was observed that nature had provided a most excellent and capacious basin for a pond of water by utilizing the valley made by Turkey and other smaller hills in Newburyport, and Indian, Ilsley, Archelaus and other hills in the adjoining town of West Newbury, which had the appearance of having a most ample area of water shed, thereby ensuring almost an unlimited amount of water for the use of our city, provided the water could be retained by suitable artificial dams. The commissioners, under the advice of the engineer, at once determined to cause proper surveys of the premises to be made, to ascertain the amount of area of water shed into said basin or valley, and also to procure reliable data as to the area of land available for the purpose of flowage for a pond as a storage supply.

These surveys were at once entered upon and prosecuted with great industry, as was absolutely necessary, owing to the very limited time allowed by the act of the legislature in which the commissioners are to report. The results of these surveys (for the particulars of which reference may be had to the report of the engineer) were extremely gratifying to your commissioners, as we have no doubt they will be to our citizens generally, for by it we

learned that Mr. Wightman's practical experience had enabled him to detect that which had before been overlooked, and that nature had generously provided all that was necessary for her to do, to give us a beautiful and pure sheet of water, needing only the brain and labor of man to utilize the same, and bring the best and purest of water to our very doors. The extent and advantages of this water shed are without doubt to most of our citizens comparatively unknown, and therefore the commissioners feel called upon to report more fully the "result of our investigations and deliberations thereon" than would, perhaps, otherwise be necessary; and would therefore invite your especial attention to its claims as regards quantity, quality, contiguity and economy, as well as its security from future contamination.

And first as regards the quantity of water to be here obtained it may be said that by a long series of experiments and observations the amount of rain fall to be collected in a basin such as is proposed is no uncertain quantity, but is susceptible of very close calculation as to the quantity that may be depended on; it may be safely stated that experience has shown us that each square mile of water shed will yield 1,000,000 gallons per day, hence as our engineer's report shows a water shed of over five square miles we could rest satisfied that from this source could be obtained enough and to spare for the use of our city, far beyond the life time of any now living, even if we should be favored with quite a rapid increase in population, as will doubtless be the tendency if a public water supply is introduced. Relating to this point the following extract from an article on this subject is here given: "The Board of Water Commissioners of the city of Norwich, Conn., selected a water shed of only 483 acres, 1 rood, and 31 rods, no water being impounded by nature, but, having the advantage of a sufficiently elevated position to supply the city by gravity. The area of the artificial reservoir was 66 acres, the capacity of the reservoir by careful calculations was determined and the estimate made that it should fill by retaining the water that should fall on the surface of the 483 acres in 474 days. By experience it filled in 450 days, the explanation being that the rain fall for that term was in almost that exact proportion more than the average. The quantity stored shows the daily average of water saved while filling to have been 817,778 gallons; this would be equal to a daily supply of 40 gallons per day to 20,444 persons." A further quo-

tation from the same report says: "In the autumn of 1868 the dam at the city reservoir was fully completed, the waste gate finally closed, and the storage of water commenced. The results accomplished by months of labor and large sums of money expended were about to come to a practical test. How few, then, among all the citizens dared predict even moderate success from an experiment, a doubtful experiment, as many believed of gathering sufficient water in an open meadow, from a small stream, with only three-fourths of a square mile of gathering ground for an adequate supply of wholesome water for the needs of ten or twelve thousand persons? The skeptical asked, can this little streamlet give us pure, soft and wholesome water? Those who desire may now test its qualities and witness a large and beautiful lake clear and deep, lying among the hills, with its arteries extending past almost every door ready to supply the wants of the people, and powerful against devouring flames." It will be seen by the above quotations what has been done with a water shed of less than one-sixth of what we have at our command.

Of the purity of water from such a source of supply no person can reasonably doubt, and annexed hereto will be found the result of various analysis of water made by Dr. Karl Castlehurn, at the request of the commissioners, and also annexed to the report of the Engineers a table giving the weight of impurities in various public water supplies. The contiguity of this source of supply is also very favorable to its selection, and it is most fortunate that we have here at hand the high land of Turkey hill which is most favorably located as a sight for a reservoir, and is also the most desirable spot to be found in the city, as regards its elevation, being at its top 132 feet above mean high water, and having excellent area on its summit on which to construct a reservoir, and it will be readily seen that its location is much nearer the central point of distribution than any other supply which is now or ever has been considered. (if we except what may have been said in regard to the water of Common pasture.) The short distance for a forcing main from the proposed lake to the reservoir (only some 1,600 feet) is also very desirable, when considered as much reducing the expense in consumption of fuel for pumping and also lessening the possibility of any break in the forcing main.

In the light of economy without doubt this source of supply is the most favorable one for the city, both as regards its first cost,

as well as looking to any future needs of the city, from growth in population or increase in manufactures, as with its great water shed we should have an ample supply for a city of 50,000 inhabitants, using at the rate of 50 gallons per day, per capita.

Water reports show the daily consumption of water from public supplies to range between 30 and 120 gallons per capita; Chicago for instance using 120, and Fall River about 30. Most, if not all other cities and towns in this country supplied with water works coming within these extremes. The area of the water shed at the source of supply under consideration is without doubt as free from impurities as any like number of acres to be found, nor is it at any time in the future likely to be contaminated by the growth of our city in that direction. For the estimates of cost of introducing water from this and other sources of supply, see estimates of the engineer.

The board have also given careful attention and consideration to the plan of obtaining water from Kimball's pond in Amesbury, and in the report of the engineer will be found his estimate of the cost of water from that source, which it will be observed is without the damages. The quality of the water is excellent and the quantity to be had ample for many years. The report of the engineer is in the opinion of your commissioners, sufficiently full in regard to Lake Gardner, and also the Powow river and its affluents to make it unnecessary, for the purpose of this report, to make any additional suggestions in relation to them; and the same may also be said of the plan of taking a supply from the Bartlett and Jackman springs, and looking elsewhere for an auxilliary source.

The board in concluding this report would say that having visited various cities and towns that have a public water supply, they have without an exception found the people of such places pleased and thoroughly satisfied with the action they have taken in procuring a supply of water, and in many instances it has happened that the most strenuous opponents to it before it was procured, have, since they have seen its practical advantages and value to the town become its warmest advocates. We believe that our city cannot longer afford to go without a good and sufficient supply of water, but the advantages to be derived by our citizen in the matters of health, convenience and prosperity, as well as the great necessity of a better protection against the devouring flames, have been so many times presented to the public, both in this city and elsewhere,

that we believe it unnecessary for us at this time to enlarge upon these points, but to simply say that the more your commissioners have investigated, and the more they have seen in other places, the greater has been their conviction that Newburyport ought not longer to delay in acting favorably on the question of procuring a sufficient supply of good and pure water; and believing as we do that the prosperity of our city in the future must depend on its manufacturing interests, we consider this to be an important step in that direction which should not be ignored.

And if we are to have a water supply it seems to the board that the franchise is well worth retaining by the city, and taking the whole question as it stands to-day, the interests of the city will be best subserved by accepting Chapter 240 of the Acts of 1878, it being "An act to supply the city of Newburyport with water." And the voters of the city should bear in mind that by a vote of Nay the city loses its right to put the works in themselves, and control the price and management of it, and the franchise then passes to a private corporation. Your commissioners would say that they have, in no instance, found any person versed in the many questions relating to a public water supply, who advise any other way than that the city should own and control the works themselves, being enabled thereby to construct them not only with an eye to their profitable use for the present, but with due regard to their sufficiency for the future; while the works constructed by a corporation might be dwarfed, both as regards capacity and permanency, by the possible limit of their proprietorship.

From examination of reports of the income and annual expense of running the works of other places, and from other information gathered from various sources, your commissioners feel warranted in making the statement that should the city construct its own works they will be self-sustaining, after a reasonable time shall have elapsed in which to distribute the water to consumers.

Various tables are submitted herewith relating to the subject matter of this report, by one of which it will be seen that the estimated cost of constructing works for our city, when reduced to the cost per inhabitant, is very much in our favor as compared with the same cost in other places, and that by another of said tables there is every reason to believe that the works will be self-sustaining.

The board, in closing this report, desire to express their full satisfaction with the valuable services and advice rendered them by

their engineer, Mr. Wightman, and also thanks for his readiness to make the most of the short time allowed your commissioners in which to make their report.

All of which is respectfully submitted for the consideration of your honorable body, in the hope that it may be of value to our city and that the labors of the commission may not have been in vain.

E. F. BARTLETT, SAMSON LEVY, B. F. ATKINSON, FRANCIS CURTIS, JOHN L. DODGE,	}	Water Commissioners of Newburyport.
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Newburyport, June 11, 1880.

Report of Henry M. Wightman, Civil Engineer,

TO THE

BOARD OF WATER COMMISSIONERS.

Gentlemen: I had the honor to be employed by you on the 13th of May, to investigate and report upon various sources of water supply for your city.

The time you gave me to do this work was necessarily short, and the investigations which I have made have in many respects not been as thorough as I could wish, although as thorough as the limited time would permit.

The sources which I have considered and examined, are the Common Pasture, Little River, Bartlett and Jackman Springs, Artichoke River, Kimball's Pond, Lake Gardner, Back or Colchester River, Powow River and Merrimac River.

COMMON PASTURE.

This large expanse of flat country has been supposed by many to contain an inexhaustible underground supply of water. It was investigated to some extent in 1873 by S. F. Thompson, C. E., and the tube wells were sunk in two places from which a very good

flow resulted. Mr. Thompson states in his report that the saturated stratum was only from twelve to fifteen inches in thickness, and if this is the case no very considerable supply could be obtained.

A long continued series of observations which could only be made by sinking large numbers of tube wells and pumping continuously from them would be necessary to settle the question of how much water could be obtained from this source.

I would state generally that no invisible source of this kind would be recommended by a competent engineer, if any other was available at a reasonable expense.

LITTLE RIVER.

This stream has a water shed of about three square miles, which would yield if it was possible to obtain a storage basin of sufficient capacity, a supply that would be ample for the wants of the city. There is no place where such a storage basin could be formed, therefore a supply from this place is out of the question, as the summer flow is very small.

BARTLETT AND JACKMAN SPRINGS.

These springs have been quite carefully investigated and an estimate of the cost of a supply from this source is appended.

Apart from the uncertainty in regard to quantity which must always attend a supply derived from springs, the quality of the water is unexceptional and the quantity as gauged is larger than I expected. It may be stated here, however, that the quantity, although quite large, is not sufficient for a supply for your city, and it may be doubted if, in a cycle of dry years, it would not be very much reduced.

It should not be forgotten that the springs are as much dependent upon rains for their supply as ponds, lakes or rivers, but while the water-sheds of the latter are visible and the amount of water that can be obtained from them is easily estimated, there is no way in which the water-shed of a spring can be accurately determined, and consequently no method except that of gauging, by which its flow can be ascertained. Even gaugings are unreliable for showing the value of springs as sources of supply unless they are made in an exceptionally dry year. The following table will show the amount flowing from the springs as gauged by my assistant, Mr Stearns:

GAUGING AT BARTLETT AND JACKMAN SPRINGS.

Bartlett Springs. Weir 1.49 feet long. Lip of weir 1 foot above bottom of channel of approach, and 0.8 feet above mean tide. Average range of tides, about $6\frac{1}{2}$ feet.

Jackman Springs. Weir 1 foot long. Lip of weir 1.5 feet above bottom of channel of approach, and 2.8 feet above mean tide.

BARTLETT SPRINGS.					
DATE.	TIME.	—State of tide.—		Volume in gallons passing weir each day	Total volume passing both weirs.....
		Distance below lip of weir in feet	Rising or falling		
1880.					
May 20.	4:24 p. m.,	2.4	Rising.	339,000	565,000
" 21,	4:39 "	4.0	Low	317,000	537,000
" 22,	1:41 "	0.9	Falling	328,000	551,000
" 25,	9:41 a. m.,	1.3	Rising	330,000	553,000
" 25,	10:17 "	0.1	"	339,000	562,000
" 26,	5:45 "	1.1	Falling	330,000	552,000
" 29,	11:27 "	4.7	Low	315,000	532,000
Average					550,000

JACKMAN SPRINGS.					
May 20,	11:25 a. m.,	2.4	Falling	232,000	
" 20,	2:48 p. m.,	5.8	Low	226,600	
" 21,	5:15 "	5.5	Rising	220,000	
" 22,	9:30 a. m.,	0.3	"	232,000	
" 22,	1:19 p. m.,	2.5	Falling	223,000	
" 25,	10:51 a. m.,	1.0	Rising	223,000	
" 26,	5:58 p. m.,	3.4	Falling	222,000	
" 29,	11:38 a. m.,	6.5	Low	217,000	

It will be seen by the above table that the maximum difference of flow during the gauging time was only about seven per cent, which must be considered very regular.

The average flow of both springs, 550,000 gallons in twenty-four hours, would have to be supplemented by a supply from some other source to make an adequate supply for your city. An adequate source should be able to furnish 1,000,000 gallons in twenty-four hours, although estimating your population at 14,000 and the consumption at fifty gallons per head, would give but 700,000 gallons per day. The experience of all cities that have public water supplies, has, however shown that it is very poor economy not to provide a water supply upon a liberal scale. The consumption in the summer months, especially if they are very hot and without much rain, would be as much as twenty per cent. above the average consumption.

It may be said of these springs that they would probably furnish a supply for several years if the anticipated consumption should not be reached, and that the cost of a scheme from this source is comparatively small and the water is of superior quality.

The objections to the scheme are the impracticability of obtaining a site for a reservoir of sufficient height to avoid supplying the city during the day hours by direct pumping, and the probable necessity in the future of supplementing the supply with inferior water from another source.

A site for a reservoir could be obtained upon Moulton's, hill but would cost so much in addition to the extra length of pipes required as to render the direct pumping plan much the cheapest. It would be difficult to maintain a proper circulation through the reservoir proposed for this scheme, as only the surplus water from the pumps runs into it, and the lack of head in the night time might cause some annoyance. This plan is, however, in successful operation in Cambridge and in Brighton, and will soon be in operation in East Boston.

The scheme as proposed contemplates a reservoir on Pillsbury's hill, with pumping station, wharf, &c, at Bartlett springs. The springs are to be dammed at their outlets and connected by a line of pipes. The direct pumping is to be against a head of 150 feet above high tide, and the grade of the reservoir to be at 104 feet above the same base. The estimate of the cost of the scheme is appended.

ARTICHOKE RIVER.

This river, rising in West Newbury and flowing thence into the Merrimac river, forming a part of the boundary line between Newburyport and West Newbury, is a very sluggish stream with, however, a large water shed.

The upper branches of the river are in a good country for furnishing pure water, and the slopes of the water-shed on the west side of the river are quite steep; those on the east side are more gradual, but are not so flat as to be objectional. By building a dam across the river at a point shown on the accompanying plan, an artificial lake or basin with a water surface of 164 acres can be formed. The basin will be about 10 feet in depth and will contain about 375,000,000 gallons.

There is no reason why the water stored in this basin will not be equal if not superior to that of any other source that can be obtained, except the Bartlett and Jackman springs. This source will furnish about 2,500,000 gallons per day.

The scheme for this supply involves the building of a dam, and thereby flooding about 164 acres of meadow land, a pumping station as located on the plan, and a reservoir on Turkey hill, with a water surface at grade 132 feet above high tide, and a capacity of 5,200,000 gallons. The supply main to the city will be about 2 1-5 miles long, and the loss of head on High street with the domestic consumption will be about 3 feet only; but in case of fire it might amount to about 32 feet.

The table of levels on High street which is appended will show the effect of this loss of head at the houses at different points on the street.

KIMBALL'S POND

located in Amesbury, with its high water mark at 90 feet above high tide, has an area of about 330 acres and is of sufficient ca-

capacity to furnish all the water that would be needed for the supply of the city. The pond is used as a storage reservoir for the Salisbury mills, and is liable to be drawn down from 8 to 10 feet whenever the water is needed by the mills. The damages claimed for the water needed would undoubtedly be large, and might lead to expensive litigation to determine them. It would be advisable if this source were adopted to seize the full amount of water allowed by the act of the Legislature—1 1-2 million gallons per day—as there seems to be no provision for a second taking.

The scheme estimated upon proposes a pumping station on the border of the pond; a reservoir on Pond hill with its water surface at grade 226 feet above high tide and a capacity of 2,500,000 gallons; a reservoir in the city on Pillsbury's hill with its water surface at grade 104 feet above high tide and a capacity of 3,000,000 gallons.

The reservoir on Pillsbury's hill is for use in case of accident to the pipe line from the Pond hill reservoir, and also in case of fire to furnish a supply without the excessive loss of head that the long supply main would necessitate. The ordinary head would be very much larger than that due to the height of the Pillsbury hill reservoir, or about 180 feet, with a consumption of 1,000,000 gallons per day.

LAKE GARDNER.

This lake has been examined both as a source of supply by itself and also as a source from which a supply might be obtained to supplement that from the Bartlett and Jackman springs when the limit of their capacity should be reached. As a source from which to obtain a full supply for the city, it is, I think, undesirable as compared with either of the other sources estimated upon, and as a source from which to obtain a supplementary supply to that of the Bartlett and Jackman springs, the mill pond below possesses advantages over it in its less distance from the city, and the ease of access, involving consequently less expense to connect it.

An estimate has been made of the expense of furnishing a supply of 1,000,000 gallons at the proposed pumping station of the springs, but this estimate does not include the mill damages, in regard to which the same consideration would apply as in the case of Kimball's pond.

BACK OR COLCHESTER RIVER.

A hurried examination of this river has been made with reference to its ability to furnish a supply to supplement that from the Bartlett and Jackman springs.

I believe that a sufficient quantity for this purpose could be obtained at a cost not exceeding that from the mill pond of the Salisbury mills, that is if my opinion of the amount of damages that might be awarded in each case is a correct one.

POWOW RIVER.

No scheme for taking a supply from this river has been estimated upon, but from such examination as I have made it does not possess

any advantages as a source of supply over Kimball's pond. The damage to the Salisbury mills would be about the same in one case as in the other.

MERRIMAC RIVER.

A supply could be obtained from this source, and the quality of the water would be good, but it could only be pumped out at low tide. If taken at high tide the water would be brackish, as the tide water runs far above the city limits.

As it is probable that your citizens would be prejudiced against obtaining a supply from this source, I have not investigated it very carefully, but it could undoubtedly be used to advantage to supplement, in case of necessity, the supply from Bartlett and Jackman springs at a comparatively trifling expense, if the spring system of works should be adopted.

CONCLUSIONS UPON THE SOURCES OF SUPPLY.

I will summarize the estimates which are given in detail elsewhere :

The Bartlett and Jackman springs scheme will cost for a supply of 500,000 gallons per day, including pumping capacity for 1,000,000, and pipe system.....	\$272,734 00
Bartlett and Jackman springs scheme, supplemented by a supply of 1,000,000 gallons per day from mill pond at Salisbury mills, or from Back or Colchester river, and not including mill damages in either case.....	\$303,234 00
Storage basin scheme on the Artichoke river, supply equal to 2,500,000 gallons per day.....	\$294,515 00
Kimballs pond scheme with a supply of 1,500,000 gallons per day, not including mill damages ..	\$308,605 00

It will be seen that for the amount of water the Artichoke basin scheme is very much the cheaper, and I have no hesitation in recommending it as the best for adoption by your city. By it an ample supply can be furnished for any probable increase of population in the future, and I am satisfied that the quality of the water will be equal if not superior to that of the average water supplies.

I believe your city will make a grave mistake if it allows any private company to introduce the water, and in concluding this hastily written report will say that I have rarely in my experience seen a locality for which nature had furnished so many sources of supply that could be comparatively cheaply introduced that had not a public water supply.

I desire to express my obligations to my assistants, Messrs. F. P. Stearns, W. A. Gould, and Dexter Brackett, for their co-operation in endeavoring to get their several portions of the work done in time.

The maps and tables appended to this report will not need, I think, any explanation from me, other than that either given upon or in them.

Respectfully submitted,
HENRY M. WIGHTMAN.

TABLE GIVING THE HEIGHTS ON GREEN AND HIGH STREETS, IN FEET,
ABOVE HIGH TIDE.

Green street at Merrimac street.....	9
“ City hall.....	25
“ Washington street.....	39
“ corner of High street	57
High street at Market street.....	54
“ Eastern railroad tunnel.....	58
“ Buck street.....	65
“ Kent “	63
“ Tyng “	65
“ Belleville church.....	69
“ Three roads.....	81
“ Gowen Dockum's.....	102
“ Joseph Moulton's.....	90

ESTIMATE OF COST OF PIPE SYSTEM.

1,100 feet of 16-inch pipe, laid at \$2.60	\$2,860 00
26,340 “ 12 “ “ 2.00.....	52,680 00
6,420 “ 10 “ “ 1.60.....	10,272 00
5,300 “ 8 “ “ 1.30	6,890 00
62,100 “ 6 “ “ 1.00.....	52,100 00
150 hydrants at \$70.00.....	10,500 00
1 16-inch gate.....	180 00
26 12 “ at \$90.00.....	2,340 00
8 10 “ at 75.00	600 00
8 8 “ at 45.00.....	360 00
110 6 “ at 35.00.....	3,850 00
	\$142,632 00

Add for contingencies, engineering, and superintendence, 15 per cent

21,394 80

\$164,026 80

Cast iron pipes are estimated at \$35 per ton, delivered on wharf at Newburyport.

DETAILED ESTIMATE OF COST OF SCHEME AT BARTLETT AND JACK-
MAN SPRINGS.

Dams at outlets of springs.....	\$10,000 00
Excavations in basins and land damage.....	7,000 00
1100 feet of 14-inch A pipe, with stopcocks, connecting basins....	3,260 00
Pumping works, including engine house, two engines, boilers, etc.	15,500 00
Coal shed and wharf....	6,500 00
1000 feet 16 inch B pipe. Force main.....	2,700 00
9300 feet 16-inch A pipe. Force main.....	22,700 00
Distributing reservoir on Pillsbury's hill, capacity 5,200,000 gallons, land damages included.....	29,900 00
Pipe system as before estimated less 1500 feet of 12-inch pipe re- placed by force main.....	139,600 00
	\$237,160 00
Add for contingencies, engineering and superintendence, 15 per cent	35,574 00
	\$272,734 00

Supplementary supply of 1,000,000 per day from Mill Pond, below Lake Gardner, will cost as follows :

About 11,150 feet 12 inch A pipe, including extra cost of crossing the Merrimac river.....	\$21,200
Stop cocks and work at dam at Salisbury Mills, including land damages	5,300
Add for contingencies, engineering and superintendence, 15 per cent,	3,950
Total.....	30,475
Add cost of supply from springs.....	272,734
Total cost, not including mill damages.....	\$303,209

DETAILED ESTIMATE OF COST OF SCHEME AT ARTICHOKE BASIN.

Dam, including over-fall, gate chambers, etc	\$13,000
Basin, including land and mill damages, cleaning, grubbing, rip-rap protection, etc	18,304
Raising roads and rebuilding bridges, fencing, etc	7,696
Pumping works, including engine house, coal shed, one pumping engine and boilers, etc	15,000
Force main, 14-inch pipe, to reservoir, including land damages, and connecting pipe with basin.....	5,000
Reservoir on Turkey Hill, capacity 5,200,000 gallons, including land damages, gate chamber, circulation pipe, stop cocks, etc	24,600
Supply main, 11,650 feet of 16-inch pipe, from reservoir to corner of Toppan and High streets, including land damages from reservoir to Toppan street.....	29,900
Pipe system, as before estimated	142,600
	256,100
Add for contingencies, engineering and superintendence, 15 per cent,	38,415
Total.....	\$294,515

DETAILED ESTIMATE OF COST OF SCHEME AT KIMBALL'S POND.

Pumping works, including engine house, engine and boilers, coal shed, force main, etc.....	\$20,000
Reservoir on Pond Hill, capacity 2,500,000 gallons, including land damages, gate chamber, etc.....	17,000
Supply main, 27,330 feet of 14-inch pipe, including extra cost of crossing Merrimac river, stop cocks, etc	63,760
Distributing reservoir on Pillsbury's Hill, capacity 3,000,000 gallons, including all appurtenances and land damages.....	20,000
Pipe system, as before estimated, adding \$5000 for extra thickness of pipe required by greater head	147,600
	\$268,360
Add for contingencies, engineering and superintendence, 15 per cent,	40,245
Total cost, not including mill damages	\$308,605

REPORT OF KARL CASTELHUN, CHEMIST,

TO THE

BOARD OF WATER COMMISSIONERS.

Newburyport, June 10, 1880.

GENTLEMEN:—I received five samples of water, which I examined, and obtained the following results :

Grains in one United States gallon.

	Free Ammonia	Albuminoid Ammonia	—Solid residue—			Oxygen for organic substances	Chlorine
			Inorganic.	Organic and vola.	Total		
No. 1	0.0069	0.0040	1.39	1.34	2.74	0.273	0.202
No. 2	0.0023	0.0008	5.83	0.93	6.76	0.012	0.608
No. 3	0.0027	0.0186	3.09	2.74	5.83	0.354	0.405
No. 4	0.0030	0.0023	5.83	1.51	7.34	0.025	2.430
No. 5	0.0033	0.0072	1.57	1.10	2.68	0.271	0.405
No. 6	0.0054	0.0054	3.73	1.86	5.59	0.353	0.507

Samples 1 and 5 were slightly, 3 was distinctly colored; 2 and 4 were colorless. All the samples were not perfectly clear, owing to some suspended matter. Number 5 contained, besides numerous living "cyclops," a small crustacea, common in ponds and stagnant water. Allowed to settle, the suspended matter formed a more or less conspicuous sediment, which, by microscopical examination, proved to be a variety of diatoms, living ones and fragments, confervæ and other algæ, particles of quartz, etc.†

The five samples belong to the class of soft water, especially numbers 1 and 5. The hardness is generally in proportion to the quantity of dissolved matter. It will be seen from the above figures that this quantity is very small in samples 1 and 5, a little larger in 2, 3 and 4. The solid residue, obtained by evaporating the water, consists of inorganic (mineral) and organic matter. The incineration of this residue, whereby the organic matter is destroyed and volatilized, gives approximately the amount of organic matter. Another more correct test consists in determining the amount of oxygen required for the oxydation of organic matter. The question as to the nature of the organic matter—that is, if of vegetable or animal origin—is usually decided by an estimate of the so called albuminoid ammonia. It is a process by which the animal (nitrogenous) organic matter is converted into ammonia, the free or saline ammonia being previously removed. According to this, and also to the foregoing test, the samples 2 and 4 take the first rank, then comes 1 and 5, and at last 3. It may be remarked here

that neither of those tests gives with absolute correctness the true amount of dissolved organic matter in water. Nevertheless they are generally applied, together with other results, to arrive at a judgment about the quality of water. There was no indication for nitrates in the unconcentrated waters, and for chlorine and sulphates, for lime and magnesia the indication was only faint.

In summarizing all the results, we find that the five samples of water would rank in purity as follows: First, number 2; second, number 4; third, numbers 1 and 5; fourth, number 3. Numbers 1 and 5 are of about the same quality; number 5 is purer in regard to albuminoid ammonia, while the reaction for the total organic matter is in favor of number 5.

The following figures, which are agreed upon as a kind of standard, may assist you in forming an opinion on the quality of the waters in question:

Hardness. Water is called soft with a hardness of 2-5 degrees; moderately hard with a hardness of 5-9 degrees; hard with a hardness of 10-12 degrees; very hard with a hardness of 13-15 degrees. (The hardness of the water from the Market square well is 22.5 degrees; that from City hall is 6.2 degrees.)

Organic Matter. The amount of oxygen required for the oxydation of the organic matter in 100,000 parts of water should not be more than 0.2. Less than 0.1 indicates a good drinking water. The albuminoid ammonia in pure water may vary from 0.002 to 0.005.

Chlorine. Should not be more than two to three parts in 100,000 parts.

Total Solid Residue. Should not be more than fifty parts in 100,000 parts.

KARL CASTELHUN.

The above analyses were made from numbered samples, the chemist not being informed of their source. They were taken by Mr. Stearns, as follows:

No. 1.—Artichoke river, full basin, near Curson's mill, deepest part.

No. 2.—Jackman springs.

No. 3.—Artichoke river, shallowest part, near fourth bridge.

No. 4.—Bartlett springs.

No. 5.—Kimball's pond, 100 feet from shore, four feet depth below the surface.

No. 6.—Artichoke river, shallow, rear of number 3.

The engineer states that the basin when filled will have the purity of the deep water.

TABLE SHOWING THE WEIGHT OF IMPURITIES IN GRAINS IN ONE GALLON OF WATER OBTAINED FROM VARIOUS SOURCES OF SUPPLY.

Date	SOURCE OF SUPPLY.	Mineral matter . . .	Organic and Volatile . .	Total Impurities . .
1873.	New York, Croton river	4.11	0.67	4.78
"	Boston, Cochituate	1.86	2.10	3.96
"	Philadelphia, Schuylkill	2.30	1.20	3.50
"	Chicago, Lake Michigan	5.62	1.06	6.68
"	Jersey city, Passaic river	4.58	2.86	7.74
"	Rochester, Genesee river	12.02	1.23	13.25
"	Woburn, Horn pond	3.57	1.79	5.36
"	Charlestown, Mystic river	3.96	1.72	5.68
"	Lynn, Saugus river	3.12	2.40	5.52
"	Waltham, Charles river	1.45	2.92	4.37
"	Newburyport, Market square	56.97	6.53	63.50
"	" Browns square	12.71	2.97	15.68
"	" Common pasture, boring	7.11	0.53	7.96
"	" Merrimac river, low tide	1.94	1.19	3.13
"	" Jackman's spring	1.98	0.99	2.97
1880.	" Artichoke, near tide mill	1.39	1.34	2.73
"	" " at 4th bridge	3.09	2.74	5.83
"	" Jackman's spring	5.83	0.93	6.76
"	" Bartlett's spring	5.83	1.51	7.34
"	" Kimball's pond	1.57	1.60	2.68

COST OF WATER WORKS IN VARIOUS PLACES.

PLACE.	Total Cost.	Population .	Cost per inhabitant . .
Cambridge	\$1,700,000	50,400	\$34.00
Lawrence	1,240,000	37,000	34.00
Fall River	1,430,000	48,000	30.00
Lynn	950,000	33,300	29.00
Lowell	2,160,000	54,000	40.00
Salem (including Beverly)	1,880,000	33,500	41.00
Brookline	500,000	6,800	74.00
Newton	750,000	17,000	44.00
Hartford, Conn	1,400,000	40,000	35.00
Newburyport (estimated)	300,000	14,000	21.00

INCOME FROM WATER WORKS OF VARIOUS CITIES AND TOWNS.

CITY OR TOWN.	Year	Population .	Receipts for water	Receipts per inhabitant
Cambridge*	1879	50,400	\$164,000	\$3.25
Lawrence†	1878	37,000	63,700	1.72
Fall River‡	1879	48,000	69,700	1.45
Lynn||	1878	33,300	67,600	2.03
Lowell§	1879	54,000	106,200	1.97
Salem (including Beverly)¶	1877	33,500	46,900	1.40
Brookline**	1877	6,800	14,600	2.15
Woburn††	1879	11,000	22,508	2.03
Hartford, Conn.‡‡	1879	40,000	116,900	2.92
Estimate for Newburyport.....		13,500	27,000	2.00

* \$11 each for hydrants; 3 per cent of debt paid into sinking fund, \$5000 surplus besides.

† \$10,000 for water for city. ‡ \$25,00 for water for city.

|| \$10,000 for hydrants; 58 per cent of the inhabitants take water.

§ \$20 for each hydrant; corporations have separate water works.

¶ Nothing from hydrants; previous year \$17,000

** \$5800 for town water. †† Including \$5000 for hydrants. ‡‡ \$30 for hydrants.

SOURCE OF WATER SUPPLY,

*Proposed by the Newburyport Water Company, and approved by the Board
of Water Commissioners.*

*To the Honorable Board of Water Commissioners of the city
of Newburyport:*

The Newburyport Water Company propose to take and now submit to your honorable board for approval, as a source of supply of water for Newburyport, Bartlett's spring, and either Jackman's spring or Artichoke river, at the company's selection as the supplemental source of supply for the same.

They propose to use for main pipes either cast iron or wrought iron lined with cement. The cast iron pipes to stand a pressure of 300 pounds to the square inch, and the wrought iron pipe to be equal to the best in the country.

They propose that the sizes of the pipe shall be those marked on the plan accompanying the contract made by the water company with the city, dated August 17, 1880, which is herewith submitted for the approval of your honorable board.

THE NEWBURYPORT WATER CO.,

By David L. Withington, Clerk.

Newburyport, September 15, 1880.

IN BOARD OF WATER COMMISSIONERS, }
Newburyport, Sept. 15, 1880. }

The within proposition received and approved.

E. F. BARTLETT, }
J. L. DODGE, }
B. F. ATKINSON, } Commissioners.
F. CURTIS. }
SAMSON LEVY. }



CLOSING ADDRESS

OF

MAYOR JOHN J. CURRIER.

Gentlemen of the City Council:—

I have the honor to submit to the two branches of the city government, in convention assembled, a brief summary of the work that has been accomplished during the past twelve months, with a condensed statement of the appropriations and expenditures, authorized by the City Council, for the year ending Dec. 18, 1880.

From the treasurer's report, which has been carefully examined and verified by the City Auditor, it appears that an unexpended balance of \$6309.89 will be carried to the sinking fund for the extinguishment of the city debt, of which sum only \$3000, was specifically appropriated for that purpose. In consequence of a change made by the School Committee in the payment of the salaries due the school teachers, (carrying the payment forward one month,) the balance remaining to the credit of the school department is \$1500 larger than it otherwise would have been. But I am happy to say the bills incurred in this as well as every other department, so far as it has been possible to obtain them, have been approved and paid, so that the indebtedness of the city at this date is much less than usual.

The detailed statement is as follows :

POOR DEPARTMENT.

Appropriation	\$12,000 00
Income	3,272 41—\$15,272 41
Expenditures	16,219 89
Overdrawn	\$ 1,047 48

SCHOOL DEPARTMENT.

Appropriation	\$23,500 00	
Income.....	\$1,050.24—	\$24,550 24
Expenditures		24,590 47
Overdrawn.....		\$40 23

FIRE DEPARTMENT.

Appropriation.....	\$6,500 00	
Income.....	20 00—	\$6,520 00
Expenditures.....		7,238 01
Overdrawn		\$718 01

HIGHWAYS.

Appropriations, highways,.....	\$3,000 00	
“ Sidewalks and edgestones.....	1,000 00	
“ Stone paving.....	2,300 00	
Income from highways	111 52	
“ Sidewalks and edgestones	816 20—	\$7,227 72
Expenditures on highways..	3,516 59	
“ Sidewalks and edgestones	1,820 44	
“ Stone paving.....	2,148 50—	7,485 53
Overdrawn.....		\$257 81

INCIDENTALS.

Appropriations.....	\$2,000 00	
Income, liquor licenses.....	5,850 00	
“ Non resident bank tax.....	2,206 89	
“ Corporation tax 1880.....	5,856 81	
“ sundry other sources.....	151 58—	\$16,065 28
Expenditures.....	5,693 75	
Abatement taxes, 1874--78.	1,011 53	
Water commission expenses.....	1,150 75	
Widening Merrimac street... ..	406 75—	\$8,262 78
Undrawn		\$7,802 50

PUBLIC PROPERTY

Appropriation	\$4,500 00	
Income from City Hall.....	871 25	
“ Market house and cellar.....	400 00	
“ Burial lots.....	40 00	
“ other sources.....	91 50—	\$5,905 75
Expenditures		8,437 26
Overdrawn.....		\$2,531 51

DAY AND NIGHT POLICE.

Appropriation	\$6,500 00	
Income from clerk of police court for witness fees.....	942 98—	\$7,442 98
Expenditures.....		8,250 80
Overdrawn.....		\$807 82

LIGHTING STREETS, &c.

Appropriation.....	\$5,800 00
Expenditures.....	5,733 11
Undrawn.....	\$66 89

INTEREST

Appropriations	\$25,000 00
Income from overdue taxes.....	1,297 50
“ City railroad dividends	2,782 50
“ on bank deposit.....	198 37
Discount on County tax.....	23 80—\$29,302 17
Expenditures	29,209 81
Undrawn	\$92 36

SALARIES.

Appropriation	\$4,200 00
Expenditures	4,027 16
Undrawn.....	\$172 84

FUEL.

Appropriation	\$5,000 00
Income	1 10—\$5,001 10
Expenditures.....	3,900 37
Undrawn	\$1,100 73

BOARD OF HEALTH.

Appropriation	\$200 00
Undrawn	200 00

PUBLIC LIBRARY.

Appropriation	\$1,000 00
Income from dog money.....	445 10
“ Town of Newbury	146 00
“ Fines.....	20 50—\$1,611 60
Expenditures	1,482 28
Undrawn.....	\$129 32

BRIDGES AND CULVERTS.

Appropriation	\$1,200 00
Income	90—\$1,200 90
Expenditures, Newburyport bridge.....	1,169 14
“ Essex Merrimac bridge	407 96
“ Culverts.....	475 69—\$2 052 79
Overdrawn	\$851 89

SINKING FUND.

Appropriation	\$3,000 00
Undrawn	3,000 00

Total amount of balances undrawn.....	\$12,564 64
“ “ “ overdrawn.. ..	6,254 75
Carried to sinking fund this year.....	\$6,309 89

The net cost of the Poor Department to the tax payers of Newburyport, (exclusive of fuel) is \$1,846.01 less for the year 1880 than for the year 1879. An additional saving to the city of 3 3-4 cords of wood and 133 1-2 tons of coal has also been effected during the past twelve months. Your attention has been called to the necessity that exists in this department for a new and more commodious almshouse, and some preliminary steps have been taken in relation to its construction, but an order authorizing the committee on almshouse and poor to procure the necessary plans and proceed with the work, failed to meet your approval. The bequest, therefore, of the late Rev. William Horton, D.D., amounting to \$19,589.23, received June 22, 1880, has been placed in the hands of the sinking fund commissioners for safe keeping, until some definite plan of action is agreed upon.

A recent vote of the school committee in regard to the payment of the salaries of school teachers, to which reference has been made, has reduced the overdrawn balance in that department to \$40.28. With the outstanding bills paid the overdraft would exceed \$1500.

In addition to the usual expenses of the fire department a new hose carriage has been purchased during the year at a cost of \$600, which sum has been charged to the appropriation made for that department.

The paving of Merrimac street commenced in 1879, has been extended to the foot of Green street at a cost this year of \$2,148 50. The macadamizing of High street has also been extended to the head of Broad street. If, hereafter, appropriations are made to continue the work now practically inaugurated, of paving those streets used for the transportation of heavy merchandise and macadamizing those that accommodate only the lighter travel, a decided and substantial improvement in our highways will ultimately be secured. The straightening and widening of Merrimac street, near the foot of Market street, has been partially completed, and the bills for the improvement made up to the close of the fiscal year, amounting to \$406.75, have been paid. Unavoidable delays have rendered it necessary to wait until spring opens before attempting to finish the work. The estimated cost of this improvement is \$2000, two-thirds of which is assessed upon the county, and one-third upon the city of Newburyport.

The cost of keeping the city teams and the pay of the teamsters has been charged to the appropriations for public property. Credit

should be given for the work they have performed, which if done would leave an unexpended balance of about fifteen hundred dollars in that department, instead of an overdraft of \$2,531.51 as now appears from the statement submitted.

ESTIMATED EARNINGS OF THE CITY TEAMS.

Highway Department,	625 days,	double teams.	at \$4.00	\$2,500 00
"	321	single "	\$3.00	963 00
Poor Department,	22 1-2	double "	\$4.00	90 00
"	4 1-2	single "	\$3.00	15 00
Fire Department,	9	" "	\$2.00	27 00
"	attendance on steamers at fires		\$12.50	312 50
"	"	hose carriages at	\$5.00	85 00
Public Property,	4 days' work,	double teams at	\$4.00	16 00
"	5	single "	\$3.00	15 00
Bridges and culverts	1	double "	\$4.00	4 00
Water Commiss'ers,	1	" "	\$4.00	4 00
				\$4,031 50

A new municipal register has been prepared and published by order of the city council. Some errors and omissions have, undoubtedly, been made in its compilation, but it is believed that it will be found to be as full and complete a collection of the ordinances, rules, and orders, and other matters relating to the government of the city of Newburyport, as could reasonably be expected.

An ordinance establishing the office of city auditor has been adopted during the past year, and the committee on finance thereby relieved from that personal investigation and verification of the treasurer's accounts which, from the nature of the case, it has been found impossible for them to satisfactorily perform. A thorough and systematic examination of books and vouchers, involving cash transactions extending through a period of twelve months, requires much time, and the experience and peculiar training of a careful and competent expert. Heretofore the work has been wholly neglected or hastily and superficially done; hereafter, with an auditor as competent in the discharge of his duties as the one we now have, the interests of the city will be well protected.

The effort to extend the Bartlet Mall around Pond street, and to improve the same as a public promenade, has failed from causes be-

yond the control of the committee having the matter in charge. The funds necessary to purchase the property in that vicinity were subscribed by private citizens interested in the contemplated improvement, and by former residents desirous of beautifying and adorning that locality. Negotiations were commenced for a transfer of the land, and the removal of the buildings, but the sudden illness and death of Mrs. Sarah W. Hale, and the subsequent legal difficulties in the way of obtaining a perfect title to that portion belonging to the estate of the late Moses Brown, Esq., has resulted in a temporary abandonment of the scheme. An appeal to the legislature by the next city government, for the right to take this property for the proposed extension of the Mall is the only feasible plan that can be suggested for the furtherance of this desirable object. The committee to whom this contemplated improvement was committed by the city council desire to express their obligations to Edward S. Mosely, Esq., for his earnest and successful efforts to secure the funds necessary to carry out the plans and wishes of the council, as well as for his advice and assistance in the negotiations for the purchase of the property.

The recommendation made in my inaugural address in relation to the sprinkling of High street with water, during the summer months, met with a liberal response from many of our public-spirited citizens, and especially from Michael H. Simpson, Esq., of Boston, who generously offered to donate one thousand dollars towards the funds needed to put the plan into practical operation. It was found, however, after careful investigation, that the expense of providing the necessary supply of water, tanks, carts, and other apparatus, and the time required to place them in position, ready for service, would not justify the joint special committee of the council in undertaking to carry out the proposed plan during the summer of 1880. Next year, however, if the work is undertaken, and the arrangements perfected early in the season, the comfort and convenience of a well watered thoroughfare, extending from one end of the city to the other can be secured.

A petition, signed by many influential citizens, asking the aid of the city government in relation to the better accommodation of those who have occasion to frequent the post office in this city, has received careful attention, and the erection of a suitable building ensured, by private enterprise, if a convenient and acceptable location could be obtained. The owners, however, of the most desir-

able lots on State street, and in that immediate vicinity, having declined to sell, or even to name a price at which they would dispose of their property, the attempt to provide a structure specially designed and built for a post-office has been reluctantly abandoned.

The most important question that has occupied your attention, the past year, has been one relating to the introduction of water into the city of Newburyport. The many considerations involved still render the question one of vital interest to every tax-payer in this community.

The board of water commissioners, elected under chapter 239 of the acts of 1880, have investigated the subject at a cost of \$1,150.75 and the bills have been paid and charged to the account of incidentals.

Although the conclusions reached and recommendations made by the commissioners failed to receive, at the polls, the two-thirds vote necessary to secure their adoption, nevertheless due credit should be given for the earnest efforts made to present to the public a new, and, in the opinion of the commissioners, satisfactory solution of the problem. After much discussion and the final adjustment of legal questions involved, a contract with the Newburyport Water Company was accepted by the city council, submitted to citizens and approved by them. This contract has since been duly signed and executed, and the long contemplated work will undoubtedly be entered upon early in the spring.

My objections to the proposal as finally agreed upon — making the city of Newburyport a party to the contract for a term of twenty years, — have doubtless been misconstrued and misrepresented. I am convinced, after due consideration of the subject, that water can be supplied by a private company cheaper and more acceptably than at the public expense. Six hundred cities and towns in England and Wales, and I know not how many in New England, are thus supplied. But the water should be pure, and the source adequate from whence the supply comes, not liable to be affected when droughts prevail, — and the terms of the contract carefully worded to avoid future controversy. With more time for deliberation I believe some of these points might have been more effectually guarded against, and subsequent complications and annoyances avoided.

It is possible, also, that a corporation, controlled by men identified with the material prosperity of Newburyport, and anxious to

advance its interests, could have been organized under the act establishing the Newburyport Water Company, if opportunity had been offered, and that better terms for the public and private supply of water would have been submitted.

Briefly stated, then, my objection to the contract as it stands is, that its acceptance excludes from public consideration, other proposals of responsible parties more favorable to the public interests. Actuated solely by a desire to secure for the city the best possible proposition that could be obtained, I could not under the circumstances, favor the one that has been finally accepted. Nevertheless I do not wish to be considered as an unqualified opponent to the introduction of water. My objection applies to this particular contract and the exclusion of all competitors; not to the broader and more important question—how, when, and from what source shall the city of Newburyport be supplied with pure water for domestic and manufacturing purposes. I do not wish at this time, however, to re-open the discussion of the subject, and merely allude to it now in order that I may place myself squarely and fairly on record in regard to it.

In conclusion, gentlemen, allow me to thank you for the courtesy and kindly consideration extended to me on all occasions. I have received at your hands a public testimonial of your good will and esteem which I cannot fail to appreciate, and remember with pride and satisfaction. The social gatherings which have brought us into nearer personal relation to each other have been productive of some good if they remind you occasionally, as they surely will me, of the duties and pleasures forever associated with the administration of municipal affairs in 1880.

The sudden and serious disaster that has fallen upon this community would sadden the festivities to which I had intended to invite you to-night. A modification of my plans has therefore been rendered necessary, and I now ask you, at the close of this session, to meet in an adjoining room the members of the next municipal administration of Newburyport, in order that the retiring city government may exchange a few friendly words and civilities with the incoming one, and practically illustrate the spirit of that ancient proverb which bids us “Welcome the coming, speed the parting guest.”

ANNUAL REPORT
OF THE
SCHOOL COMMITTEE
OF THE
CITY OF NEWBURYPORT
FOR THE YEAR
1880.



NEWBURYPORT:
M. C. TEEL & SON, PRINTERS, 4 MERRIMAC STREET.
1881.

REPORT.

CHANGES OF TEACHERS.

The following changes have been made in the teachers, viz: Above State street—

Miss Alice H. Olmstead was transferred from the Buck street Primary school to Room A in the Kelley school, taking the place of Miss Florence A. Winn who resigned, and Miss Hattie E. Piper was elected to Room C in same school.

Miss Susie I. Adams was elected to fill the vacancy in the Buck street school caused by the transfer of Miss Olmstead.

Miss Agnes A. Somerby was transferred from the Kent street Primary (2d Division), to be assistant in Currier girls' Grammar school, Forrester street, in place of Miss Mary Agnes Pearson, resigned.

Miss Nellie M. Stanton was transferred from 1st Division to 2d Division of Kent street Primary, and Miss Carrie M. Bayley was elected to fill her place in the 1st Division of Kent street Primary.

Mrs. Belle P. Winslow was elected as an additional teacher in the High school, being transferred from the Plains school.

Miss Hattie P. Cheney was elected to the Plains school in place of Mrs. Winslow promoted as above.

Below State street the only change was the election

of Miss Belle Emerton as assistant in the Jackman Primary school.

Thus during the year five new teachers have entered the school service in this city.

EXAMINATION OF TEACHERS.

Jan. 29th, 1880, an examination was offered to all those who desired to obtain certificates of fitness for teaching in our grammar and primary schools. Seventeen ladies and one gentleman presented themselves as candidates. The standard previously voted by the board was 70 credits on a scale of 100 for perfect. Eleven of those examined obtained that number and were declared entitled to certificates. Their names in order of rank were as follows :

Misses Carrie M. Bayley, Cora B. Lougee, Alice M. Leach, Harriet C. Piper, Susan True, Etta R. Cutter, Cora B. Ambrose, Maria G. Smiley, Addie R. Hale, Lizzie H. Cheever, Ellen A. Merrill.

QUESTIONS FOR THE EXAMINATION OF TEACHERS.

Arithmetic, 10 questions, 2 credits each,—20 credits. Grammar, 15 questions, 1 credit each,—15 credits. Geography, 20 questions, 1 credit each,—20 credits. Spelling, 20 words, $\frac{1}{2}$ credit each,—10 credits. History, 10 questions, 1 credit each,—10 credits. Reading marked on a scale of 10 credits. Mental Arithmetic marked on a scale of 5 credits. Drawing marked on a scale of 5 credits. Penmanship marked on a scale of 5 credits. Total, 100 credits.

GENERAL QUESTIONS.

1. What is your full name?
2. What is your age?
3. Where were you born, and where do you now reside?
4. Have you ever had any instruction in any foreign language? If you have what?
5. What is your experience in teaching?

ARITHMETIC.

1. Define Involution, Evolution, Meaning of a Power.

2. Difference between Arithmetical and Geometrical progression?
3. What is the cube root of 11, to three decimals?
4. A can hoe 16 rows of corn in one day, B 18 rows, C 20 rows and D 25 rows. What is the smallest number of rows that would keep each employed an exact number of days?
5. Divide thirty-six, and six thousand nine hundred forty-seven ten thousandths, by five hundred and eighty-nine.
6. Reduce 15 cwt. 3 qu. 14 lb. to the decimal of a ton.
7. How much land is in a field 29 7-13 rods square?
8. From 58 lb. 5 oz. 12 dwt. 10 gr. take 19 lb. 9 oz. 17 dwt. 21 gr. Explain the operation.
9. Find the interest of \$1287.53 for 69 days at 7 3-10 per cent?
10. If a conical stack of hay 15 ft. high contains 6 tons, what is the weight of a similar stack whose height is 12 ft?

GEOGRAPHY.

1. What are Atolls, where are they found and how are they formed?
2. What is the zone or belt of calms.
3. Where is the region of greatest heat about the size of New England?
4. Where is the region of greatest cold?
5. Bound Kentucky.
6. Name the states and countries that border on the Gulf of Mexico.
7. Give the names of six of the countries of South America.
8. Name several of the principal exports of France.
9. Bound Austria.
10. Tell what parts of Africa are controlled by Great Britain.
11. Name four large islands between Asia and Australia.
12. Name four of the larger peninsulas of Asia.
13. Give approximate number of English speaking people, and the countries where English is used as the common language.
14. Define an Archæpelago.
15. Write the usual route taken in going from New York to Calcutta.
16. Describe the surface of Egypt, and give some idea of its climate and soil.
17. Give the states you would pass through in going by rail from Portland in Maine to Washington, D. C.
18. Name five of the larger islands in the Mediterranean.
19. What states of the Union furnish the most coal, iron and petroleum.
20. Give the course of the Ohio river.

GRAMMAR.

1. What properties have nouns?
2. What does case denote?
3. How is the possessive plural of nouns formed?
4. What is the conjugation of a verb?

15. MEERSCHAUM. A soft stone or clay used for pipes.
16. PORTEMONNAIE. Pocket book.
17. AVOIRDUPOIS. A measure of weight.
18. POIGNANT. Sharp.
19. SCREECH. Shrill cry.
20. COLONNADE. A series of columns.

DRAWING.

1. Bisect a straight line.
2. Erect a perpendicular at the end of a line.
3. Draw a line parallel to another straight line.
4. Construct an equilateral triangle.
5. Construct an ellipse. Explain your methods for the above work.

PRIMARY SCHOOLS.

The system of Primary school instruction in this city has never embraced object teaching, properly so called, though many teachers have wisely introduced the practice of exciting the attention and training the perceptive faculties in geography and arithmetic, by using globes, by blackboard exercises, and by drawing. Our schools are not so well furnished as they might be with large maps, and not at all with those numerous small articles which would be required if it had been thought advisable to embark our schools in the schemes of object teaching. There are many who wish to see the methods tried which are claimed to have been so efficient in Quincy, but on the other hand it may be said that such methods require a considerable expense, and furnishing. They imply an average degree of intelligence and capacity for development, which are not generally possessed except by those who have advantages at home. At all events, memorizing cannot be dispensed with in learning the tables of numbers; and it would take a more numerous corps of teachers than we have, and those specially trained for the work to teach according

to the methods of Froebel. In many places where the system is introduced, teachers do not really follow Froebel, but teach frivolously. They store the young minds entrusted to their care with considerable general information, but fail to cultivate those habits of plodding industry which are absolutely essential to the common mind, and which can hardly be dispensed with by those having genius. And it has been well said that "Industry is only another name for talent." It is much if our schools cultivate the habit of continuous application, and useful employment. It may even be pernicious, if too much effort is made to induce the belief that study is a species of pastime and pleasure. Far better that the child should feel that the pleasure is to come from the results attained, and that he or she should learn to regard study as a duty and means of elevation and progress than that it is a pleasure merely. There may not be so much present delight from our methods; children may not go so eagerly to school as where they are taught to count or to get their letters by games, blocks, pictures, &c., but their real progress will be more satisfactory, and their discipline of mind more direct by realizing that work is work, and not play. Believing these principles as a whole are sound, there has long been in this city, and is now, a course of study, called the primary course, which is designed to consume four years of time in reading, writing, spelling, arithmetic and geography. During this period in reading, the first four books of the Franklin series are used, and by this course, children should learn to read all words of two syllables or less, and the most common words even longer than two syllables. But by reason of frequent absences from school of pupils, not more than sixty per cent. of those who

should accomplish the portion in reading are able to do so in four years current time. Many children, and often bright children, take five or six years current time to acquire even the primary quantity of reading. This absenteeism is the most discouraging feature of our primary instruction. Children are not often truants, they are kept from the schools by their parents, either from necessity caused by poverty, or because the importance of persistent attendance is not sufficiently realized. The sums earned by such small children are inadequate compensation to them or the parents for the discouragement to the child, and the habits of irregularity which are thus inbred. Truant laws do not seem to reach such cases, and if these were enforced, as they rarely are, they would be a poor substitute for the cordial co-operation of parents. Your committee therefore earnestly ask parents, particularly of girls, to see that their children go to school in all weathers, and are provided with clothing suitable and sufficient to resist cold and wet. The stormy days are the very best for backward pupils to be present as then the attendance is less and the teacher can give special attention and individual instruction. It is noticeable that the first cold snap is generally followed by a large diminution in the attendance of pupils in the earlier primaries. The falling off in five schools of this grade between the 19th and 22d of November was 20 per cent. and this was caused by the sudden fall in temperature. And yet every effort is made to keep the rooms sufficiently heated and teachers are specially enjoined to look after the comfort of their pupils. In this grade of schools the average attendance in May and June is nearly equal to the number belonging to the schools. But in December, January and Feb-

ruary the number belonging is about half of that in May and June, and the attendance is irregular.

It was an experiment to substitute written for mental arithmetic for our youngest children; but experience seems to have justified the change. Children, evidently, take far more interest in their written solutions, than in mental processes, and have, besides, laid a foundation of useful knowledge in the practical questions of life and trade. The very minute drill in vulgar fractions, required in Colburn's, was, for those who are not going beyond primary instruction, barren of results, exceedingly tedious, and above the ability of primary children. In exchange for this, Mac Vicar's arithmetic trains the mind in the simpler problems of the first four rules: addition, subtraction, multiplication and division, and relieves the Grammar schools of this preliminary work.

The tables below will show the condition of these schools according to the enumeration taken from the teachers as of Oct. 30th, 1880 :

BOYS TAUGHT—ARRANGED BY STUDIES.

	Alphabet.	First Reader.	Second Reader.	Third Reader.	Fourth Reader.	Mac Vicar.	Total.
Below State	14	33	65	69	53	184	234
Above State	15	97	59	63	41	123	275
City	29	130	124	132	94	307	509

GIRLS TAUGHT—ARRANGED BY STUDIES.

	First year in Alphabet.	First Reader.	Second Reader.	Third Reader.	Fourth Reader.	Mac Vicar's 3d, 4th years. belonging	Total
Below State	18	67	53	55	46	141	239
Above State	12	71	73	75	70	191	301
City	30	138	126	130	116	332	540

These children, boys and girls, in the whole numbering 1049, were taught by 24 teachers exclusively devoted to them, and half of the time of the teacher in the Plains school was also used for primary instruction. It will appear from the following tables that in the sub-

primaries the number of pupils per teacher was greatly in excess of that of the last year of the course, although the reverse would be a better condition of things.

TABLE OF PUPILS PER TEACHER.

	1st year.	2nd year.	3d year.	4th year.	Course.
Below State, - -	48	43	48	30	39
Above State, - -	54	50	45	33	47
City, - - -	51	47	47	32	43

There has been for years a necessity for one or more additional teachers for the sub-primaries above State street if they are to be kept down to an average of less than 40 per teacher. There are in this part of the city 40 per cent., or about 200 children who do without primary instruction for the larger part of the year, and the fact that the primaries are too crowded to be efficient is often given as a reason for absenteeism.

GRAMMAR SCHOOLS.

The Grammar schools of the city, on the 30th of October, 1880, were taught by seventeen teachers, (exclusive of the Plains school, in which about one-third of the pupils are in the Grammar course.) The children attending them were in all at last date 701, of which 359 were boys, and 342 were girls. This gives about 40 pupils to a teacher. But those who are in the first year of the course are very much more numerous than in the fourth year. The falling off in this respect is very much to be regretted. Every child should at least complete the Grammar school course in reading, writing, arithmetic and geography, in order to have sufficient learning for the ordinary vocations of life. Yet the fact is that while the pupils in the first year in the city number 226, in the last year they do not exceed 110. This falling

off causes the number of pupils in the first year per teacher, to be 42, and in the last year only 33.

The Grammar schools from their grading can be taught in classes and thus time can be economized as compared with the Primaries where grading is necessarily imperfect. The following table will show the numbers in the city studying in each text book:

	Fourth Reader.	Fifth Reader.	Colburn's.	History.	Geography.	1st year Arithmetic.	3 last years in Arithmetic.	Total.
Boys	95	264	285	244	355	114	245	359
Girls	82	260	289	236	341	113	229	342
Total	177	524	574	480	696	227	474	701

If by object teaching is understood teaching industries, that has never been done in our schools. It has of late been argued that the girls should be taught to sew, and the boys to telegraph and survey. Industrial schools with these and other objects looking to training in industries have been established in other places, with very valuable results. But such radical innovations should, perhaps, be urged by the people, and made the matter of previous discussion before they can be taken up generally by school committees, or even partially introduced.

EVENING SCHOOLS.

We submit herewith, the reports of the principals of the evening schools. It will appear therefrom, that the schools were not so large as they have been in former years. This was owing to a determination to confine the attendance to persons over fifteen years of age. But for the few who did attend, the school was more necessary than it would have been for those under fifteen years of age. For youth the day schools are open.

REPORT OF THE EVENING SCHOOL FOR WOMEN.

Number of sessions from Dec. 9, 1879, to March 11, 1880	-	27
“ “ pupils belonging	- - - - -	50
Average number of pupils belonging	- - - - -	35
Number of teachers	- - - - -	3
Pay of principal	- - - - -	\$27
“ “ assistants, each	- - - - -	18
Total	- - - - -	<u>\$63</u>

H. E. LUNT, Principal.

REPORT OF THE EVENING SCHOOL FOR MEN.

The school commenced Dec. 8, 1879, and continued twenty-one evenings. There were only three assistants throughout the term. The greatest number present any evening was fifty; the average number twenty-eight. The school was made up mostly of young men over sixteen years, all under that age, as far as possible, being excluded. We endeavored to have good order and to exclude all those that came for any other than a good purpose; and, in consequence, all that desired had an ample opportunity to improve. Most, if not all present, took advantage of the chance and much progress was made in all the studies.

Respectfully submitted,

G. W. BROWN.

EXAMINATION FOR ADMISSION TO HIGH SCHOOL.

At the examination for the High School in July, 1880, forty-two boys and thirty-six girls presented themselves, of which thirty-two boys and thirty-three girls came from our public schools.

The following table will show the numbers from each school at the first examination:—

		GIRLS.		
Teacher.	School.	Number applying.	Number admitted.	Average credits.
Miss Coffin, -	Johnson,	6	5	66.6
Miss Shackford,	South,	10	8	67.5
Miss Toppan,	Currier,	12	12	70.2
Mr. Moulton,	Kelley,	5	4	65.1
Total,		<u>33</u>	<u>29</u>	<u>68.0</u>

BOYS.

Teacher.	School.	Number applying.	Number admitted.	Average credits.
Mr. Brown,	Bromfield,	6	2	59.8
Mr. Lunt,	Jackman,	6	6	71.8
Mr. Moulton,	Kelley,	14	10	68.8
Miss Chute,	Currier,	5	3	67.5
Miss Cheney,	Plains,	1		
Total,		<u>32</u>	<u>21</u>	<u>67.6</u>

They were examined upon the following questions, and sixty-five credits were required for admission :—

ARITHMETIC.

1. From 44 3-5 plus 9 1-6 take 33 1-8.
2. Bought 6 bu. 3 pk. 1 pt. of beans at \$2 a bushel, and gave sugar in exchange at 13 cents per lb. How much sugar did it take?
3. Divide the L. C. M. of 16, 96, 240, by their G. C. D.
4. A tailor having $276\frac{2}{3}$ yards of cloth, sold 2-9 of it at one time, and 3-7 at another. What is the value of the remainder at \$3 per yard?
5. Divide two hundred thirty-four and sixty-one thousand eight hundred seventy-five hundred thousandths by 16 1-8.
6. On a note of \$600, dated June 10, 1876, at 6 per cent, were the following indorsements:

August 12, 1875\$200.
 September 15, 1875..... 200.
 December 1, 1875..... 200.

What is due January 1, 1876?

7. What is the compound interest and amount of \$12,000 for 2 years 6 months 18 days at 4 per cent?
8. A merchant invested \$6,000 in business. He gained 23 per cent the first year; the second year he lost 20 per cent of what he had at the end of the first year. What per cent of his money has he left?
9. What is the *difference* between the bank and true discount on a note of \$1,000 at 7 per cent, payable in 90 days?
10. Find the cube root of 113.379904.

GEOGRAPHY.

1. What is Geography? and define its three divisions.
2. Define a mountain range, and locate three in the United States.
3. Define a river system, and name the largest in South America.
4. What group of islands southeast of North America? and name the largest.
5. Name prominent capes on the east coast of North America.
6. Bound the United States, and give its capital.

7. Name the Gulf States, and their leading productions.
8. Name four States on the east bank of the Mississippi, and the capital of each.
9. Name highest mountain and largest lake in New Hampshire.
10. For what industry is each of the following cities noted, viz: Manchester, Lowell, Haverhill, Springfield, Lynn, Worcester, Fall River.
11. Where is Long Island? and name its largest city.
12. Through what bodies of water would a vessel sail in going from St. Louis to Philadelphia?
13. Name the largest river emptying into the Atlantic from the United States, and what capital city upon it?
14. What countries are crossed by the Andes mountains?
15. Through what bodies of water would a vessel sail in going from Boston to Odessa?
16. Name three seas south of Europe.
17. Name the largest empire, largest city, highest mountain, largest river, largest lake, largest peninsula, in the world.
18. What three oceans wash the shores of Asia?
19. Name the largest of the African islands, and what waters surround it?
20. What province of the Dominion of Canada is a peninsula.

GRAMMAR.

1. In what two ways do we express thought? What is a sentence?
2. What is a conjunction? Give an example.
3. Write a sentence containing a preposition, and parse the preposition.
4. Write a sentence containing a verb in the active voice, then change the verb to the passive.
5. Define verb; difference between regular and irregular verbs.
6. Write a sentence containing a proper noun in the nominative case; an irregular verb in the perfect tense; a common noun in the possessive case, and a common noun in the objective case.
7. Write a sentence containing a possessive pronoun.
8. What is the difference between who, which and what?
9. How many degrees of comparison? Compare good, bad, heavy, round, fortunate.
10. Give the plural of thief, sheep, crisis, mouse.
11. Correct this sentence in capitals, punctuation and spelling,—
"america, was Discovered by; cristofa colombous."
12. Correct this sentence so as to make it indicate only futurity: I will drown, nobody shall save me.
13. What parts of speech are, alas, bravo, hurrah?
- 14-20. Analyze this sentence and parse the words marked with numerals:—

16

17

18

19

20

als:—"Go to the ant thou sluggard, consider her ways and be wise."

SPELLING AND DEFINING.

Accuracy—Recommend—Receding—Outwitted—Bronchitis—Symmetry
—Colonnade—Seethe—Inflammation—Eliminate.

HIGH SCHOOLS.

The course of study in the High schools has not been materially different during the year ending in September, 1880, from what it has been since the union with the Putnam Free school. But there has been a creditable improvement throughout the school and in some of the branches of study a considerable advance in the amount of work accomplished.

The class in French which graduated last July, read during their Senior year, *La Chanson du Jardinier*, 59 pages; *Les Dames Vertes*, 206 pages; *Le Roman d'un Jeune Homme Pauvre*, 95 pages; *Le Roi des Montagnes*, 301 pages; of *Scenes et Recits des Alps*, 150 pages.

They also completed Magill's French Grammar, of which they had previously learned 132 pages.

During the same year the Middle class learned 153 pages of the Grammar and read Ahn's French Dialogues, 78 pages; *Les Contes Biographiques*, 143 pages; *Les Petits Oiseaux*, 65 pages.

This achievement bears comparison favorably with the work done in the High schools at Salem or Haverhill, and is quite as much as can reasonably be expected for the time devoted to it.

The quantity of Latin read, as given by the principal, is:

In 1st year, Latin Reader entire, except the anecdotes and one-half of the Syntax sentences.

In 2nd year, Cæsar, four books.

In 3d year, Cicero, eight orations, including Manilian Law.

In 4th year, Virgil, six Books of *Æneid*—The ten *Bucolics*; in Cicero, *De Senectute*.

The progress in this department within a few years has been very marked. Not only has the amount read in the first, third and fourth years been nearly doubled, but the additional work shows greater linguistic difficul-

ties, more profound and practical thought, and presents to the pupils two divisions of literature which formerly were not taught in the schools. Similar progress has been made in other branches. In mathematics, Elementary Algebra is completed in one year.

The full course in Geometry takes a year and a half. The advanced class from September, 1879, to March, 1880, went over the 6th, 7th, 8th, 9th and 10th books of Loomis's geometry. The class, beginning Sept., 1879, studied in the year ending September, 1880. Books 1, 2, 3, and part of the 4th.

Loomis's Trigonometry is also studied throughout the Senior year. Although the last half of the Geometry and the Trigonometry are classed among the optional studies, there are always some pupils who desire them. And those who complete the mathematical course taught in the schools, go over more ground than is generally compassed in classical schools and more than is required for admission to college. The methods of instruction of Steele's Fourteen Weeks in Physics and Chemistry, have increased the interest in these studies. Physical geography, which is as it were the encyclopedia of the arts and sciences, is also taught to large classes. In Geology the class has been taught to draw maps and diagrams, which work is intended to improve them in the principles as well as the details of this science.

The size of our High school has been relatively greater than that in Salem; here it is an average for ten years of about 190, (a majority of whom are girls) while in Salem, the average is about 240.

Some of the pupils who come in, would do better if they spent another year in the Grammar schools, but of one hundred who enter more than 25 per cent. pursue

the full course. The difference between the size of the first year's class or preparatory and the last being evidence of this. The changes in this respect are shown by the following table, exhibiting the size of the classes in the Brown and Female High schools on Sept. 30, 1880 :

	Boys.	Girls.
Preparatory class,	30	25
Second year, (Junior)	21	18
Third year, (Middle)	13	6
Senior year,	9	6
Total,	<u>73</u>	<u>55</u>

The following diagram shows the number of pupils in the principal studies on Oct. 30, 1880 :

	Brown High.	Female High.	Putnam. *	Total
Latin,	22	30	18	70
French,	9	12	27	48
Literature,	8	6	15	29
Geology,	4	3	12	19
Greek,	7	1	4	12
Chemistry,	9	7	21	36
Physics,	20	18	38	76
Algebra,	24	24	38	86
Arithmetic,	24	26	21	71
Modern History,	21	8	28	71
English Grammar,	22	11	15	48
Physical Geography,	25	25	13	63

The following are names of graduates from the consolidated High and Putnam Schools, 1880 :

GRADUATING CLASS FOR 1880.

BROWN HIGH SCHOOL. Orrin J. Welch, Charles C. Spalding.

FEMALE HIGH SCHOOL. Augusta S. Knight, Carrie K. Page, Alice H. Hall, Lucie I. Glines, Grace L. Hunt, Annie S. Caswell, S. Effie Smith.

PUTNAM FREE SCHOOL. W. S. Bartlett, J. E. Bailey, Charles Bradstreet, F. M. James, Walter H. Little, John Titcomb, Alice B. Morrison, Ethel T. Parton, Carrie Pike, Edith E. Pray, Alice P. Steyens, Addie Veasey, Ena Drake, Alice W. Bailey, Lizzie T. Brickett, Nellie M. Clarkson, Fannie E. Cushing, Hattie Dodge, Annie M. French, Mary C. Goodwin, Lillie M. Little, Josie Marston, Annie S. Merrill.

* Putnam pupils in Latin and Greek are taught by the City, which receives therefor per term, from each non-resident pupil, \$3.00, and \$2.00 for Latin only.

TEXT BOOKS.

The only changes that have taken place have been the substitution of Keetel's French Reader and French Grammar, in place of Magill's French Grammar, and of Warren's Speller in place of Sargent's. Both of the books thrown out had been long used in the schools, one of them about twenty-five years, and the other fifteen or more. Some changes are necessary from time to time to keep pace with the changes in language and the advance in science. But the law wisely requires a two-thirds vote of the whole board, and a previous notice in order to substitute a new text book. This, and a conservative reluctance to change books, has prevented too frequent changes, and has, perhaps, retained some books long after the press had furnished those far better. The tables near the end of this report will show precisely what text books are now used. And in the body of the report, under the heads, respectively of Primary and Grammar schools, are given tables showing how many use each kind.

JOHN J. CURRIER, (Mayor) *Chairman*,
 ISAAC P. NOYES, *Vice-Chairman*,
 JOHN F. YOUNG, *Secretary*,
 D. T. WOODWELL, *Agent*,
 F. A. HALE,
 T. C. SIMPSON, Jr.
 STEPHEN COLLINS,
 H. G. JOHNSON,
 C. L. DAVIS,
 AMOS NOYES,
 A. B. DEARBORN,
 J. A. MERRILL,
 C. A. CURRIER,

SCHOOL

COMMITTEE.

Newburyport, Dec., 1880.

COURSE OF STUDY IN THE HIGH SCHOOLS.

ENGLISH COURSE.

FIRST YEAR.

FIRST TERM—English Grammar and Dictation Exercises, Arithmetic, Physical Geography.

SECOND TERM—English Grammar and Dictation Exercises, Arithmetic, Physical Geography.

THIRD TERM—English Grammar and Dictation Exercises, Algebra, Physical Geography.

FOURTH TERM—English Grammar and Dictation Exercises, Algebra, Physical Geography.

SECOND YEAR.

FIRST TERM—Modern History, Algebra, Natural Philosophy.

SECOND TERM—Modern History, Algebra, Natural Philosophy.

THIRD TERM—Botany, Geometry, Natural Philosophy.

FOURTH TERM—Botany, Geometry, Natural Philosophy.

THIRD YEAR.

FIRST TERM—French, or Physiology, Geometry, Chemistry.

SECOND TERM—French, or Physiology, Geometry, Chemistry.

THIRD TERM—French, or Rhetoric, Double-Entry Book-keeping, Chemistry.

FOURTH TERM—French, or Rhetoric, Double-Entry Book-keeping, Chemistry.

FOURTH YEAR.

FIRST TERM—French, Astronomy, Geology or Trigonometry, Mental or Moral Philosophy.

SECOND TERM—French, Astronomy, Geology or Trigonometry, Mental or Moral Philosophy.

THIRD TERM—French, Astronomy, Geology or Trigonometry, Mental or Moral Philosophy.

FOURTH TERM—French, Astronomy, Geology or Trigonometry, Mental or Moral Philosophy.

NOTES. I. Weekly exercises in Declamation and Composition.

II. Civil Government weekly by the Senior Class.

III. Natural History weekly by the Middle Class.

CLASSICAL COURSE.

FIRST YEAR.

LATIN—Grammar, Reader, and Introduction to Latin Composition.

Ancient Geography and History; Arithmetic, and Algebra to Quadratic Equations.

SECOND YEAR.

LATIN—Cæsar, four books, Latin Composition. Algebra completed; Geometry, four books.

THIRD YEAR.

LATIN—Cicero, seven orations, including Manilian Law or an equivalent; Parts I and II, or one hundred and sixty-six pages of Harkness's Latin Composition; Reading Latin at sight, and Exercises in Latin Conversation.

GREEK—Anabasis, three books.

FRENCH—Contes Biographiques, Ahn's French Dialogues, No 1, and other works—in all equivalent to about two hundred and fifty pages.

FOURTH YEAR.

LATIN—Virgil's *Æneid*, six books, and the *Bucolics*; Cicero, *De Senectute* or equivalent, Latin Composition, Reading Latin at sight, and Exercises in Latin Conversation.

GREEK—Anabasis, the fourth book; Homer's *Iliad*, three books; Greek Composition. English Literature and Composition.

FRENCH—*La Chanson du Jardinier*, fifty-nine pages; *Les Dames Vertes*, two hundred and six pages; *Le Roman d'un Jeune Homme Pauvre*, ninety-five pages; this gives, as the amount read, about five or six hundred pages; and about two hundred pages from other works.

NOTES. I. Weekly exercises in Declamation and Composition.

II. Civil Government weekly by the Senior Class.

III. Natural History weekly by the Middle Class.

BOOKS USED IN THE GRAMMAR SCHOOLS.

Warren's Class-Word Speller.

Franklin Third Reader, reviewed the first and second terms.

Franklin Fifth Reader.

Guyot's Grammar School Geography, completed.

Ellsworth's Writing Books, and Single-entry Book-keeping.

Quackenbos's Language Lessons.

Colburn's Mental Arithmetic.

Greenleaf's Common School Arithmetic.

Quackenbos's History of the United States, to be employed as a reading book.

Our World, No 2, as a reference book (on the desk of each teacher).

BOOKS USED IN THE PRIMARY SCHOOLS.

Franklin Primer, the First, Second and Third Readers.

Warren's Class-Word Speller.

Mac Vicar's Elementary Arithmetic.

Guyot's Elementary Geography, completed.

Penmanship—Ellsworth's Writing Books.

SCHOOLS, TEACHERS, AND SALARIES.

HIGH SCHOOL.

Brown High and Female High, - -	{	A. H. Thompson, A. M., Principal,	\$1700
		O. B. Merrill, A. M., Assistant,	1200
		Luther Dame, "	1200
		Miss A. A. Senter, "	600
		Mrs. Belle P. Winslow, "	450

KELLEY SCHOOL.

Kelley School, - - - - -	{	N. A. Moulton, Principal, - -	1000
		Miss Janette N. Balch, Assistant, -	350
		Miss Abbie Short, "	350
		Miss M. J. Bradley, "	350
		Miss H. C. Piper, "	300
		Miss Eva J. Smith, "	350
		Miss M. E. Jaques, "	325
		Miss Alice H. Olmstead, "	325

GRAMMAR SCHOOLS.

WARD ONE.

Bromfield Male Grammar, Bromfield St.,	{	George W. Brown, Principal, - -	800
		Miss Francis J. Pearson, Assistant,	350
Jackson Male Grammar, School Street,	{	W. P. Lunt, Principal, - -	1000
		Miss Lucy Lowe, Assistant, -	350
Currier Male Grammar, Forrester Street,	{	Miss Sarah B. Chute, Principal, -	650
		Miss E. Frothingham, Assistant,	350
Johnson Female Grammar, Hancock St.,	{	Miss A. L. Coffin, Principal, -	425
		Miss E. M. Lander, Assistant, -	350
South Female Grammar, Purchase Street,	{	Miss S. J. Shackford, Principal, -	425
		Miss Priscilla G. Craig, Assistant,	350
Currier Female Grammar, Forrester Street,	{	Miss S. D. Toppan, Principal, -	425
		Miss Agnes A. Somerby, Assistant,	350

PRIMARY SCHOOL.

WARD ONE.

Bromfield Primary, Bromfield Street,	{	Miss Rhoda Tilton, Principal, -	350
		Miss Carrie M. Clement, Assistant,	325
Johnson Female Primary, Hancock St.,	{	Miss Anna A. Currier, Principal,	350
		Miss Jennie P. Haskell, Assistant,	325

WARD TWO.

Boys' Primary, Charles Street, - -	Miss Annie S. Wheeler, Principal,	350
Girls' Primary, Purchase Street, -	Miss Susie B. Lowell, Principal,	350
	Miss Mary Estes, Assistant, -	325
Jackman Male Primary, School Street,	Miss H. M. Currier, Principal, -	350
	Miss B. B. Emerton, Assistant,	300
Boys' Sub-Primary, School Street,	Miss H. H. Page, "	325

WARD THREE.

Girls' Primary, Temple Street, -	{	Mrs. W. S. Gray, Principal, -	350
		Miss S. F. Badger, Assistant, -	325

WARD FIVE.

Davenport (Girls') Primary, Congress St.,	{	Miss Clara J. Edgerly, Principal,	350
		Miss M. E. Cogswell, Assistant, -	325
Kent Street Sub-Primary, - - -	{	Miss Nellie M. Stanton, "	325
		Miss C. M. Bailey, "	275
Davenport (Boys') Primary, Congress St.,	{	Miss M. Louisa Bartlett, Principal,	350
		Miss Sarah Whitmore, Assistant,	325
Buck street, Sub-Primary, - - -		Miss S. I. Adams, "	275

WARD SIX.

Ashland street Mixed Primary, 1st Div.	Miss Frances J. Pettigrew, - -	350
" " Sub-Primary 2d "	Miss Flora Pettigrew, - -	325
Mixed Grammar and Primary, Plains,	Miss L. H. Cheever, - -	400

TABLE.

SCHOOLS.	Number of scholars during the year.	Number at the beginning of the year.	Number at the close of the year.	Average number of scholars in winter.	Average number of scholars in summer.	Average attendance in win- ter.	Average attendance in sum- mer.	Number of desks in each school.	Average age.		
									Yr. Mo.		
Brown High.....	75	75	54	73	58	71	59	90	90	14	3
Female High.....	56	56	46	54	47	49	42	140	140	14	4
Kelley.....	437	352	376	373	367	324	313	420	420	10	8¼
Bromfield (Boys) Grammar.....	69	69	60	66	61	60	55	80	80		
Jackman " ".....	90	79	71	79	72	75	68	100	100	12	6
Currier " ".....	84	68	74	74	69	68	62	72	72	12	1
Johnson (Girls) Grammar.....	74	63	64	65	65	58	57	97	97		
South " ".....	100	87	69	84	71	75	62	97	97	11	9
Currier " ".....	76	70	59	68	61	58	51	72	70	11	10
Bromfield (Boys) Primary.....	93	66	86	72	79	62	73	78	86	7	9
Charles St. " ".....	50	36	34	38	35	30	29	70	96	8	
Jackman " ".....	85	75	75	76	76	62	61	100	105	9	1
Davenport " ".....	86	75	64	76	65	53	55	80	90	9	1
Buck St. " ".....	68	47	55	52	58	42	47	96	120	6	1
Purchase St. (Girls) ".....	95	56	84	63	76	52	65	96	91	7	5
Temple St. " ".....	88	57	70	69	64	57	53	91	100	8	
Davenport " ".....	64	51	58	52	59	48	52	54	54	9	2
Jackson—Sub-Primary.....	61	34	50	37	50	31	42	35	35	6	1
Johnson (Girls) Primary.....	109	75	95	75	81	62	70	80	80	7	8
Mixed School, Plains.....	74	52	48	50	49	34	32	42	42	9	6
1 div. Ashland Street—mixed.....	42	42	39	40	39	33	33	54	54	9	5
2 " " ".....	69	51	69	46	64	31	45	54	54	7	6
Kent Street—mixed.....	61	54	48	48	49	42	37	60	63	7	9
	2106	1690	1738	1730	1715	1487	1463	2157	2236		

Number of scholars during the year.....	2100
" " " beginning of year.....	1690
" " " close.....	1738
Average number in Winter.....	1730
" " Summer.....	1715
" attendance in Winter.....	1587
" " " Summer.....	1463
Average attendance 70 per cent.	

The number of children in the city in May last between the ages of 5 and 15 years was 2486.

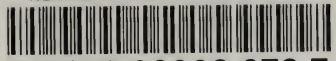
Ward One.....	419	Ward Three.....	362	Ward Five.....	519
Ward Two.....	371	Ward Four.....	392	Ward Six.....	423

FINANCIAL STATEMENT.

Appropriation.....	\$23,500 00
CREDITS.	
State School Fund	243 74
Income from Brown Fund.....	702 50
Fees from non-resident school children	104 00
	\$24,550 24
Expenditures	\$24,590 47
	\$40 23
Overdrawn	40 23
From Incidentals to balance account	

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